



REPLACEMENT SHEET
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CRYSTAL STRUCTURE OF BACE AND USES THEREOF
09/955,737

	<u>Atom Res.</u>	<u>Type</u>	<u>X</u>	<u>Y</u>	<u>Z</u>		
ATOM	1	N GLY A	58	31.563	49.775	16.324	1.00 59.33
ATOM	2	CA GLY A	58	32.861	50.358	16.764	1.00 58.44
ATOM	3	C GLY A	58	33.594	49.446	17.727	1.00 57.81
ATOM	4	O GLY A	58	34.067	48.331	17.333	1.00 56.66
ATOM	5	N SER A	59	33.712	49.888	18.975	1.00 56.66
ATOM	6	CA SER A	59	34.391	49.094	20.015	1.00 55.45
ATOM	7	C SER A	59	33.560	49.088	21.293	1.00 53.77
ATOM	8	O SER A	59	32.978	50.147	21.704	1.00 54.40
ATOM	9	CB SER A	59	35.781	49.668	20.309	1.00 55.79
ATOM	10	OG SER A	59	35.690	50.952	20.899	1.00 57.07
ATOM	11	N PHE A	60	33.480	47.924	21.927	1.00 49.96
ATOM	12	CA PHE A	60	32.719	47.772	23.181	1.00 45.72
ATOM	13	C PHE A	60	33.681	47.269	24.247	1.00 44.79
ATOM	14	O PHE A	60	33.495	46.160	24.831	1.00 45.45
ATOM	15	CB PHE A	60	31.564	46.790	22.976	1.00 43.28
ATOM	16	CG PHE A	60	30.557	47.249	21.957	1.00 41.00
ATOM	17	CD1 PHE A	60	30.875	47.267	20.602	1.00 40.54
ATOM	18	CD2 PHE A	60	29.301	47.701	22.355	1.00 40.58
ATOM	19	CE1 PHE A	60	29.954	47.731	19.658	1.00 39.88
ATOM	20	CE2 PHE A	60	28.375	48.166	21.419	1.00 39.50
ATOM	21	CZ PHE A	60	28.704	48.182	20.070	1.00 39.23
ATOM	22	N VAL A	61	34.709	48.073	24.500	1.00 43.29
ATOM	23	CA VAL A	61	35.763	47.756	25.483	1.00 43.19
ATOM	24	C VAL A	61	35.243	47.069	26.738	1.00 41.81
ATOM	25	O VAL A	61	35.876	46.099	27.247	1.00 42.54
ATOM	26	CB VAL A	61	36.532	49.035	25.895	1.00 43.62
ATOM	27	CG1 VAL A	61	37.069	49.730	24.655	1.00 44.38
ATOM	28	CG2 VAL A	61	35.621	49.975	26.676	1.00 44.28
ATOM	29	N GLU A	62	34.114	47.542	27.252	1.00 40.86
ATOM	30	CA GLU A	62	33.517	46.959	28.470	1.00 40.02
ATOM	31	C GLU A	62	33.208	45.473	28.320	1.00 36.45
ATOM	32	O GLU A	62	33.366	44.685	29.301	1.00 36.49
ATOM	33	CB GLU A	62	32.226	47.700	28.832	1.00 43.76
ATOM	34	CG GLU A	62	32.399	48.895	29.764	1.00 48.74
ATOM	35	CD GLU A	62	32.743	48.486	31.188	1.00 51.91
ATOM	36	OE1 GLU A	62	32.317	47.387	31.612	1.00 53.41
ATOM	37	OE2 GLU A	62	33.423	49.271	31.890	1.00 53.64
ATOM	38	N MET A	63	32.780	45.062	27.129	1.00 30.86
ATOM	39	CA MET A	63	32.421	43.643	26.896	1.00 27.79
ATOM	40	C MET A	63	33.491	42.741	26.279	1.00 26.02
ATOM	41	O MET A	63	33.354	41.476	26.310	1.00 25.25
ATOM	42	CB MET A	63	31.130	43.578	26.078	1.00 25.63
ATOM	43	CG MET A	63	29.942	44.133	26.858	1.00 24.89
ATOM	44	SD MET A	63	28.392	44.180	25.960	1.00 23.85
ATOM	45	CE MET A	63	28.431	45.848	25.316	1.00 24.18
ATOM	46	N VAL A	64	34.551	43.330	25.736	1.00 23.39
ATOM	47	CA VAL A	64	35.639	42.516	25.143	1.00 20.76
ATOM	48	C VAL A	64	36.263	41.634	26.216	1.00 20.06
ATOM	49	O VAL A	64	36.531	42.095	27.370	1.00 18.87
ATOM	50	CB VAL A	64	36.740	43.407	24.517	1.00 21.16
ATOM	51	CG1 VAL A	64	37.958	42.567	24.151	1.00 18.99
ATOM	52	CG2 VAL A	64	36.193	44.092	23.266	1.00 21.01
ATOM	53	N ASP A	65	36.487	40.373	25.869	1.00 18.21
ATOM	54	CA ASP A	65	37.091	39.397	26.800	1.00 18.56
ATOM	55	C ASP A	65	36.280	39.174	28.071	1.00 17.80
ATOM	56	O ASP A	65	36.869	38.964	29.165	1.00 16.29
ATOM	57	CB ASP A	65	38.508	39.829	27.194	1.00 21.53
ATOM	58	CG ASP A	65	39.409	40.055	25.993	1.00 22.65

FIG. 1A

REPLACEMENT SHEET
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ATOM	59	OD1	ASP A	65	39.162	39.451	24.930	1.00	23.75
ATOM	60	OD2	ASP A	65	40.375	40.831	26.117	1.00	24.72
ATOM	61	N	ASN A	66	34.955	39.209	27.969	1.00	16.59
ATOM	62	CA	ASN A	66	34.090	38.987	29.156	1.00	16.58
ATOM	63	C	ASN A	66	33.719	37.508	29.274	1.00	17.20
ATOM	64	O	ASN A	66	32.815	37.125	30.070	1.00	19.23
ATOM	65	CB	ASN A	66	32.817	39.845	29.059	1.00	14.62
ATOM	66	CG	ASN A	66	31.967	39.516	27.835	1.00	15.57
ATOM	67	OD1	ASN A	66	32.381	38.714	26.937	1.00	16.31
ATOM	68	ND2	ASN A	66	30.788	40.120	27.760	1.00	14.85
ATOM	69	N	LEU A	67	34.409	36.664	28.515	1.00	17.73
ATOM	70	CA	LEU A	67	34.134	35.206	28.529	1.00	17.36
ATOM	71	C	LEU A	67	35.295	34.328	28.985	1.00	16.04
ATOM	72	O	LEU A	67	36.499	34.701	28.842	1.00	16.38
ATOM	73	CB	LEU A	67	33.707	34.757	27.128	1.00	17.19
ATOM	74	CG	LEU A	67	32.226	34.504	26.839	1.00	18.63
ATOM	75	CD1	LEU A	67	31.349	35.604	27.407	1.00	16.94
ATOM	76	CD2	LEU A	67	32.049	34.375	25.330	1.00	18.67
ATOM	77	N	ARG A	68	34.956	33.166	29.531	1.00	14.58
ATOM	78	CA	ARG A	68	35.961	32.173	29.973	1.00	16.73
ATOM	79	C	ARG A	68	35.394	30.775	29.717	1.00	15.78
ATOM	80	O	ARG A	68	34.154	30.610	29.500	1.00	13.85
ATOM	81	CB	ARG A	68	36.299	32.349	31.459	1.00	18.19
ATOM	82	CG	ARG A	68	37.086	33.623	31.766	1.00	21.67
ATOM	83	CD	ARG A	68	37.571	33.646	33.213	1.00	23.25
ATOM	84	NE	ARG A	68	36.462	33.653	34.165	1.00	26.34
ATOM	85	CZ	ARG A	68	36.598	33.500	35.482	1.00	27.29
ATOM	86	NH1	ARG A	68	37.802	33.324	36.015	1.00	25.91
ATOM	87	NH2	ARG A	68	35.530	33.527	36.271	1.00	26.77
ATOM	88	N	GLY A	69	36.262	29.769	29.726	1.00	14.89
ATOM	89	CA	GLY A	69	35.816	28.409	29.486	1.00	15.62
ATOM	90	C	GLY A	69	36.505	27.806	28.277	1.00	16.66
ATOM	91	O	GLY A	69	37.526	28.367	27.771	1.00	15.60
ATOM	92	N	LYS A	70	35.989	26.676	27.804	1.00	17.25
ATOM	93	CA	LYS A	70	36.556	25.973	26.629	1.00	16.95
ATOM	94	C	LYS A	70	35.472	25.138	25.949	1.00	16.87
ATOM	95	O	LYS A	70	34.394	24.864	26.562	1.00	17.19
ATOM	96	CB	LYS A	70	37.737	25.092	27.058	1.00	18.62
ATOM	97	CG	LYS A	70	37.518	24.303	28.348	1.00	19.97
ATOM	98	CD	LYS A	70	38.737	23.446	28.667	1.00	22.43
ATOM	99	CE	LYS A	70	38.538	22.611	29.926	1.00	23.77
ATOM	100	NZ	LYS A	70	39.660	21.638	30.129	1.00	22.43
ATOM	101	N	SER A	71	35.714	24.729	24.706	1.00	15.11
ATOM	102	CA	SER A	71	34.706	23.950	23.940	1.00	14.34
ATOM	103	C	SER A	71	34.155	22.730	24.667	1.00	14.36
ATOM	104	O	SER A	71	32.918	22.446	24.600	1.00	13.81
ATOM	105	CB	SER A	71	35.281	23.523	22.581	1.00	14.97
ATOM	106	OG	SER A	71	36.456	22.743	22.732	1.00	15.41
ATOM	107	N	GLY A	72	35.024	22.005	25.362	1.00	14.38
ATOM	108	CA	GLY A	72	34.588	20.815	26.072	1.00	14.63
ATOM	109	C	GLY A	72	33.661	21.022	27.262	1.00	16.49
ATOM	110	O	GLY A	72	32.772	20.159	27.537	1.00	16.20
ATOM	111	N	GLN A	73	33.814	22.129	27.979	1.00	16.78
ATOM	112	CA	GLN A	73	32.965	22.369	29.167	1.00	18.67
ATOM	113	C	GLN A	73	32.040	23.570	29.038	1.00	18.70
ATOM	114	O	GLN A	73	31.223	23.858	29.967	1.00	19.81
ATOM	115	CB	GLN A	73	33.852	22.522	30.401	1.00	20.09
ATOM	116	CG	GLN A	73	34.924	21.433	30.493	1.00	24.21
ATOM	117	CD	GLN A	73	35.624	21.400	31.837	1.00	24.83
ATOM	118	OE1	GLN A	73	36.048	22.467	32.380	1.00	26.53
ATOM	119	NE2	GLN A	73	35.769	20.206	32.395	1.00	25.73
ATOM	120	N	GLY A	74	32.138	24.274	27.914	1.00	17.65

FIG. 1B

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ATOM	121	CA	GLY A	74	31.292	25.429	27.688	1.00	15.83
ATOM	122	C	GLY A	74	31.939	26.746	28.068	1.00	15.56
ATOM	123	O	GLY A	74	32.837	26.799	28.962	1.00	17.53
ATOM	124	N	TYR A	75	31.517	27.814	27.403	1.00	13.96
ATOM	125	CA	TYR A	75	32.041	29.164	27.686	1.00	16.12
ATOM	126	C	TYR A	75	30.991	29.903	28.502	1.00	14.92
ATOM	127	O	TYR A	75	29.758	29.793	28.217	1.00	14.71
ATOM	128	CB	TYR A	75	32.324	29.918	26.385	1.00	17.79
ATOM	129	CG	TYR A	75	33.490	29.354	25.605	1.00	18.92
ATOM	130	CD1	TYR A	75	33.326	28.271	24.742	1.00	19.83
ATOM	131	CD2	TYR A	75	34.763	29.909	25.735	1.00	20.43
ATOM	132	CE1	TYR A	75	34.409	27.757	24.020	1.00	21.98
ATOM	133	CE2	TYR A	75	35.847	29.407	25.025	1.00	21.04
ATOM	134	CZ	TYR A	75	35.666	28.339	24.170	1.00	22.04
ATOM	135	OH	TYR A	75	36.746	27.882	23.456	1.00	22.86
ATOM	136	N	TYR A	76	31.432	30.653	29.507	1.00	13.66
ATOM	137	CA	TYR A	76	30.478	31.360	30.368	1.00	12.95
ATOM	138	C	TYR A	76	30.753	32.837	30.593	1.00	13.47
ATOM	139	O	TYR A	76	31.901	33.345	30.391	1.00	13.77
ATOM	140	CB	TYR A	76	30.395	30.662	31.725	1.00	13.31
ATOM	141	CG	TYR A	76	31.723	30.548	32.446	1.00	14.55
ATOM	142	CD1	TYR A	76	32.601	29.497	32.174	1.00	16.16
ATOM	143	CD2	TYR A	76	32.105	31.495	33.392	1.00	15.68
ATOM	144	CE1	TYR A	76	33.829	29.392	32.832	1.00	17.64
ATOM	145	CE2	TYR A	76	33.329	31.402	34.055	1.00	18.14
ATOM	146	CZ	TYR A	76	34.183	30.348	33.770	1.00	18.24
ATOM	147	OH	TYR A	76	35.390	30.252	34.428	1.00	21.79
ATOM	148	N	VAL A	77	29.716	33.546	31.017	1.00	12.55
ATOM	149	CA	VAL A	77	29.844	34.980	31.298	1.00	14.17
ATOM	150	C	VAL A	77	29.390	35.225	32.727	1.00	15.16
ATOM	151	O	VAL A	77	28.564	34.439	33.283	1.00	16.09
ATOM	152	CB	VAL A	77	28.975	35.821	30.336	1.00	13.43
ATOM	153	CG1	VAL A	77	27.495	35.528	30.567	1.00	11.59
ATOM	154	CG2	VAL A	77	29.281	37.305	30.524	1.00	10.74
ATOM	155	N	GLU A	78	29.905	36.276	33.352	1.00	16.88
ATOM	156	CA	GLU A	78	29.486	36.571	34.731	1.00	17.45
ATOM	157	C	GLU A	78	28.178	37.345	34.706	1.00	16.89
ATOM	158	O	GLU A	78	27.961	38.239	33.826	1.00	14.65
ATOM	159	CB	GLU A	78	30.538	37.392	35.479	1.00	19.11
ATOM	160	CG	GLU A	78	30.222	37.503	36.974	1.00	24.70
ATOM	161	CD	GLU A	78	31.225	38.342	37.757	1.00	26.24
ATOM	162	OE1	GLU A	78	31.162	39.584	37.679	1.00	27.53
ATOM	163	OE2	GLU A	78	32.076	37.755	38.452	1.00	29.49
ATOM	164	N	MET A	79	27.296	37.012	35.641	1.00	16.65
ATOM	165	CA	MET A	79	25.992	37.684	35.761	1.00	17.22
ATOM	166	C	MET A	79	25.610	37.768	37.232	1.00	17.77
ATOM	167	O	MET A	79	26.208	37.066	38.100	1.00	18.29
ATOM	168	CB	MET A	79	24.908	36.899	35.007	1.00	16.88
ATOM	169	CG	MET A	79	25.070	36.874	33.492	1.00	16.65
ATOM	170	SD	MET A	79	23.798	35.865	32.673	1.00	17.43
ATOM	171	CE	MET A	79	22.442	37.003	32.577	1.00	15.55
ATOM	172	N	THR A	80	24.637	38.617	37.539	1.00	17.73
ATOM	173	CA	THR A	80	24.146	38.741	38.917	1.00	17.50
ATOM	174	C	THR A	80	22.632	38.630	38.853	1.00	17.85
ATOM	175	O	THR A	80	21.995	39.075	37.851	1.00	17.14
ATOM	176	CB	THR A	80	24.524	40.100	39.550	1.00	18.12
ATOM	177	OG1	THR A	80	23.851	41.158	38.857	1.00	18.55
ATOM	178	CG2	THR A	80	26.031	40.328	39.474	1.00	16.48
ATOM	179	N	VAL A	81	22.042	38.020	39.874	1.00	18.24
ATOM	180	CA	VAL A	81	20.573	37.882	39.959	1.00	20.23
ATOM	181	C	VAL A	81	20.145	38.274	41.375	1.00	21.18
ATOM	182	O	VAL A	81	20.929	38.093	42.362	1.00	20.31

FIG. 1C

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ATOM	183	CB	VAL A	81	20.105	36.429	39.700	1.00	20.43
ATOM	184	CG1	VAL A	81	20.566	35.959	38.334	1.00	21.49
ATOM	185	CG2	VAL A	81	20.639	35.518	40.777	1.00	21.78
ATOM	186	N	GLY A	82	18.938	38.817	41.497	1.00	21.84
ATOM	187	CA	GLY A	82	18.421	39.200	42.799	1.00	21.10
ATOM	188	C	GLY A	82	18.973	40.475	43.404	1.00	21.47
ATOM	189	O	GLY A	82	19.864	41.159	42.814	1.00	21.97
ATOM	190	N	SER A	83	18.454	40.808	44.581	1.00	22.27
ATOM	191	CA	SER A	83	18.869	42.012	45.335	1.00	22.02
ATOM	192	C	SER A	83	18.996	41.607	46.795	1.00	20.16
ATOM	193	O	SER A	83	18.002	41.120	47.410	1.00	20.07
ATOM	194	CB	SER A	83	17.804	43.104	45.213	1.00	21.98
ATOM	195	OG	SER A	83	17.356	43.229	43.874	1.00	23.70
ATOM	196	N	PRO A	84	20.198	41.734	47.380	1.00	21.14
ATOM	197	CA	PRO A	84	21.454	42.221	46.785	1.00	20.45
ATOM	198	C	PRO A	84	21.911	41.288	45.656	1.00	20.37
ATOM	199	O	PRO A	84	21.508	40.086	45.606	1.00	18.46
ATOM	200	CB	PRO A	84	22.434	42.193	47.962	1.00	19.74
ATOM	201	CG	PRO A	84	21.548	42.320	49.166	1.00	20.71
ATOM	202	CD	PRO A	84	20.377	41.447	48.815	1.00	19.44
ATOM	203	N	PRO A	85	22.754	41.790	44.741	1.00	20.53
ATOM	204	CA	PRO A	85	23.258	40.997	43.616	1.00	20.58
ATOM	205	C	PRO A	85	23.949	39.706	44.046	1.00	20.81
ATOM	206	O	PRO A	85	24.854	39.720	44.936	1.00	21.15
ATOM	207	CB	PRO A	85	24.240	41.947	42.932	1.00	20.87
ATOM	208	CG	PRO A	85	23.732	43.294	43.282	1.00	22.23
ATOM	209	CD	PRO A	85	23.340	43.141	44.724	1.00	21.41
ATOM	210	N	GLN A	86	23.541	38.590	43.453	1.00	20.05
ATOM	211	CA	GLN A	86	24.174	37.289	43.752	1.00	19.63
ATOM	212	C	GLN A	86	24.904	36.923	42.472	1.00	20.50
ATOM	213	O	GLN A	86	24.263	36.622	41.412	1.00	19.85
ATOM	214	CB	GLN A	86	23.127	36.227	44.097	1.00	19.82
ATOM	215	CG	GLN A	86	22.283	36.586	45.314	1.00	18.97
ATOM	216	CD	GLN A	86	21.292	35.506	45.693	1.00	19.84
ATOM	217	OE1	GLN A	86	20.226	35.801	46.316	1.00	21.21
ATOM	218	NE2	GLN A	86	21.603	34.259	45.354	1.00	17.54
ATOM	219	N	THR A	87	26.229	36.969	42.527	1.00	19.61
ATOM	220	CA	THR A	87	27.057	36.669	41.346	1.00	19.61
ATOM	221	C	THR A	87	27.088	35.188	40.994	1.00	18.63
ATOM	222	O	THR A	87	27.220	34.302	41.892	1.00	18.56
ATOM	223	CB	THR A	87	28.501	37.164	41.549	1.00	19.88
ATOM	224	OG1	THR A	87	28.486	38.558	41.887	1.00	20.57
ATOM	225	CG2	THR A	87	29.304	36.977	40.278	1.00	18.65
ATOM	226	N	LEU A	88	26.972	34.907	39.701	1.00	18.38
ATOM	227	CA	LEU A	88	26.991	33.522	39.193	1.00	18.18
ATOM	228	C	LEU A	88	27.572	33.496	37.781	1.00	18.11
ATOM	229	O	LEU A	88	27.353	34.457	36.974	1.00	18.86
ATOM	230	CB	LEU A	88	25.568	32.952	39.159	1.00	16.21
ATOM	231	CG	LEU A	88	24.825	32.828	40.495	1.00	18.20
ATOM	232	CD1	LEU A	88	23.366	32.474	40.226	1.00	18.10
ATOM	233	CD2	LEU A	88	25.484	31.766	41.379	1.00	16.56
ATOM	234	N	ASN A	89	28.317	32.443	37.459	1.00	15.84
ATOM	235	CA	ASN A	89	28.876	32.312	36.101	1.00	16.22
ATOM	236	C	ASN A	89	27.841	31.544	35.300	1.00	16.03
ATOM	237	O	ASN A	89	27.363	30.450	35.735	1.00	15.05
ATOM	238	CB	ASN A	89	30.208	31.565	36.114	1.00	15.71
ATOM	239	CG	ASN A	89	31.324	32.396	36.700	1.00	16.10
ATOM	240	OD1	ASN A	89	31.390	33.650	36.477	1.00	15.48
ATOM	241	ND2	ASN A	89	32.217	31.750	37.439	1.00	14.07
ATOM	242	N	ILE A	90	27.485	32.091	34.145	1.00	15.55
ATOM	243	CA	ILE A	90	26.445	31.494	33.292	1.00	14.59
ATOM	244	C	ILE A	90	26.960	31.052	31.930	1.00	15.07

FIG. 1D

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ATOM	245	O	ILE	A	90	27.578	31.867	31.173	1.00	13.01
ATOM	246	CB	ILE	A	90	25.301	32.512	33.084	1.00	14.44
ATOM	247	CG1	ILE	A	90	24.884	33.098	34.437	1.00	14.15
ATOM	248	CG2	ILE	A	90	24.114	31.847	32.407	1.00	14.29
ATOM	249	CD1	ILE	A	90	24.356	32.062	35.426	1.00	13.44
ATOM	250	N	LEU	A	91	26.714	29.790	31.590	1.00	15.08
ATOM	251	CA	LEU	A	91	27.153	29.249	30.284	1.00	15.63
ATOM	252	C	LEU	A	91	26.313	29.878	29.174	1.00	16.04
ATOM	253	O	LEU	A	91	25.041	29.904	29.250	1.00	16.72
ATOM	254	CB	LEU	A	91	27.008	27.721	30.265	1.00	14.67
ATOM	255	CG	LEU	A	91	27.450	26.945	29.012	1.00	15.49
ATOM	256	CD1	LEU	A	91	27.692	25.485	29.364	1.00	15.10
ATOM	257	CD2	LEU	A	91	26.393	27.052	27.925	1.00	15.54
ATOM	258	N	VAL	A	92	26.995	30.408	28.164	1.00	16.13
ATOM	259	CA	VAL	A	92	26.336	31.051	27.003	1.00	15.39
ATOM	260	C	VAL	A	92	25.901	29.960	26.038	1.00	15.51
ATOM	261	O	VAL	A	92	26.761	29.243	25.440	1.00	16.92
ATOM	262	CB	VAL	A	92	27.306	32.008	26.278	1.00	15.40
ATOM	263	CG1	VAL	A	92	26.668	32.523	24.994	1.00	16.99
ATOM	264	CG2	VAL	A	92	27.671	33.172	27.200	1.00	13.64
ATOM	265	N	ASP	A	93	24.594	29.824	25.845	1.00	16.41
ATOM	266	CA	ASP	A	93	24.069	28.762	24.974	1.00	14.41
ATOM	267	C	ASP	A	93	23.090	29.226	23.903	1.00	15.40
ATOM	268	O	ASP	A	93	21.889	29.494	24.206	1.00	15.81
ATOM	269	CB	ASP	A	93	23.411	27.701	25.861	1.00	16.00
ATOM	270	CG	ASP	A	93	22.897	26.512	25.078	1.00	16.45
ATOM	271	OD1	ASP	A	93	23.536	26.133	24.076	1.00	17.23
ATOM	272	OD2	ASP	A	93	21.863	25.938	25.481	1.00	16.68
ATOM	273	N	THR	A	94	23.550	29.326	22.657	1.00	13.38
ATOM	274	CA	THR	A	94	22.636	29.745	21.574	1.00	13.70
ATOM	275	C	THR	A	94	21.811	28.549	21.109	1.00	13.68
ATOM	276	O	THR	A	94	20.941	28.671	20.190	1.00	14.18
ATOM	277	CB	THR	A	94	23.397	30.349	20.362	1.00	14.99
ATOM	278	OG1	THR	A	94	24.279	29.370	19.798	1.00	14.96
ATOM	279	CG2	THR	A	94	24.201	31.568	20.794	1.00	14.04
ATOM	280	N	GLY	A	95	22.053	27.392	21.719	1.00	14.90
ATOM	281	CA	GLY	A	95	21.309	26.199	21.351	1.00	15.51
ATOM	282	C	GLY	A	95	20.108	25.969	22.255	1.00	16.96
ATOM	283	O	GLY	A	95	19.516	24.850	22.275	1.00	16.90
ATOM	284	N	SER	A	96	19.721	26.987	23.011	1.00	17.38
ATOM	285	CA	SER	A	96	18.562	26.851	23.922	1.00	17.95
ATOM	286	C	SER	A	96	17.990	28.231	24.226	1.00	17.07
ATOM	287	O	SER	A	96	18.573	29.269	23.803	1.00	14.94
ATOM	288	CB	SER	A	96	19.005	26.174	25.219	1.00	18.55
ATOM	289	OG	SER	A	96	19.640	26.894	26.276	1.00	26.99
ATOM	290	N	SER	A	97	16.869	28.292	24.936	1.00	16.25
ATOM	291	CA	SER	A	97	16.290	29.614	25.258	1.00	18.39
ATOM	292	C	SER	A	97	15.740	29.776	26.670	1.00	17.83
ATOM	293	O	SER	A	97	14.866	30.653	26.932	1.00	18.75
ATOM	294	CB	SER	A	97	15.224	29.993	24.227	1.00	18.88
ATOM	295	OG	SER	A	97	14.633	28.850	23.651	1.00	23.68
ATOM	296	N	ASN	A	98	16.229	28.959	27.592	1.00	17.57
ATOM	297	CA	ASN	A	98	15.809	29.073	28.993	1.00	16.01
ATOM	298	C	ASN	A	98	16.963	29.611	29.821	1.00	16.51
ATOM	299	O	ASN	A	98	18.127	29.109	29.709	1.00	16.69
ATOM	300	CB	ASN	A	98	15.401	27.720	29.566	1.00	13.74
ATOM	301	CG	ASN	A	98	13.969	27.359	29.241	1.00	16.04
ATOM	302	OD1	ASN	A	98	13.669	26.795	28.139	1.00	13.27
ATOM	303	ND2	ASN	A	98	13.058	27.680	30.158	1.00	13.26
ATOM	304	N	PHE	A	99	16.688	30.640	30.614	1.00	14.45
ATOM	305	CA	PHE	A	99	17.710	31.196	31.519	1.00	13.19
ATOM	306	C	PHE	A	99	17.453	30.424	32.812	1.00	13.23

FIG. 1E

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ATOM	307	O	PHE	A	99	16.319	30.466	33.384	1.00	11.00
ATOM	308	CB	PHE	A	99	17.491	32.699	31.722	1.00	13.54
ATOM	309	CG	PHE	A	99	18.390	33.318	32.761	1.00	14.79
ATOM	310	CD1	PHE	A	99	19.741	32.978	32.836	1.00	15.02
ATOM	311	CD2	PHE	A	99	17.889	34.258	33.657	1.00	16.17
ATOM	312	CE1	PHE	A	99	20.576	33.564	33.784	1.00	14.99
ATOM	313	CE2	PHE	A	99	18.718	34.852	34.610	1.00	16.36
ATOM	314	CZ	PHE	A	99	20.064	34.503	34.674	1.00	14.33
ATOM	315	N	ALA	A	100	18.457	29.691	33.274	1.00	11.83
ATOM	316	CA	ALA	A	100	18.298	28.889	34.497	1.00	12.34
ATOM	317	C	ALA	A	100	19.594	28.836	35.277	1.00	14.53
ATOM	318	O	ALA	A	100	20.722	28.896	34.684	1.00	15.19
ATOM	319	CB	ALA	A	100	17.849	27.486	34.138	1.00	13.09
ATOM	320	N	VAL	A	101	19.467	28.727	36.595	1.00	13.51
ATOM	321	CA	VAL	A	101	20.640	28.686	37.473	1.00	13.80
ATOM	322	C	VAL	A	101	20.429	27.693	38.610	1.00	15.86
ATOM	323	O	VAL	A	101	19.253	27.424	39.031	1.00	13.90
ATOM	324	CB	VAL	A	101	20.912	30.082	38.075	1.00	14.68
ATOM	325	CG1	VAL	A	101	21.126	31.098	36.962	1.00	12.49
ATOM	326	CG2	VAL	A	101	19.743	30.509	38.953	1.00	13.11
ATOM	327	N	GLY	A	102	21.528	27.120	39.098	1.00	16.51
ATOM	328	CA	GLY	A	102	21.437	26.189	40.207	1.00	17.46
ATOM	329	C	GLY	A	102	20.858	26.966	41.375	1.00	19.61
ATOM	330	O	GLY	A	102	21.303	28.128	41.641	1.00	19.12
ATOM	331	N	ALA	A	103	19.875	26.395	42.065	1.00	19.81
ATOM	332	CA	ALA	A	103	19.241	27.092	43.212	1.00	22.41
ATOM	333	C	ALA	A	103	19.098	26.169	44.414	1.00	23.71
ATOM	334	O	ALA	A	103	18.196	26.366	45.293	1.00	24.50
ATOM	335	CB	ALA	A	103	17.880	27.627	42.807	1.00	21.12
ATOM	336	N	ALA	A	104	19.967	25.168	44.470	1.00	23.53
ATOM	337	CA	ALA	A	104	19.979	24.180	45.566	1.00	24.47
ATOM	338	C	ALA	A	104	21.341	23.505	45.517	1.00	24.98
ATOM	339	O	ALA	A	104	21.974	23.413	44.419	1.00	26.65
ATOM	340	CB	ALA	A	104	18.869	23.150	45.367	1.00	23.55
ATOM	341	N	PRO	A	105	21.836	23.026	46.668	1.00	25.27
ATOM	342	CA	PRO	A	105	23.140	22.361	46.733	1.00	24.87
ATOM	343	C	PRO	A	105	23.328	21.286	45.672	1.00	24.16
ATOM	344	O	PRO	A	105	22.350	20.594	45.251	1.00	24.35
ATOM	345	CB	PRO	A	105	23.159	21.778	48.143	1.00	25.36
ATOM	346	CG	PRO	A	105	22.347	22.763	48.920	1.00	25.71
ATOM	347	CD	PRO	A	105	21.183	23.020	47.990	1.00	25.99
ATOM	348	N	HIS	A	106	24.566	21.135	45.227	1.00	24.93
ATOM	349	CA	HIS	A	106	24.918	20.119	44.223	1.00	23.63
ATOM	350	C	HIS	A	106	26.402	19.843	44.367	1.00	24.29
ATOM	351	O	HIS	A	106	27.207	20.790	44.596	1.00	24.19
ATOM	352	CB	HIS	A	106	24.646	20.622	42.807	1.00	24.15
ATOM	353	CG	HIS	A	106	24.887	19.587	41.756	1.00	24.43
ATOM	354	ND1	HIS	A	106	23.912	18.702	41.348	1.00	25.53
ATOM	355	CD2	HIS	A	106	26.012	19.244	41.084	1.00	23.79
ATOM	356	CE1	HIS	A	106	24.426	17.857	40.471	1.00	25.66
ATOM	357	NE2	HIS	A	106	25.699	18.164	40.294	1.00	24.92
ATOM	358	N	PRO	A	107	26.811	18.572	44.236	1.00	25.36
ATOM	359	CA	PRO	A	107	28.224	18.200	44.358	1.00	26.23
ATOM	360	C	PRO	A	107	29.164	19.025	43.474	1.00	26.26
ATOM	361	O	PRO	A	107	30.335	19.296	43.866	1.00	28.01
ATOM	362	CB	PRO	A	107	28.225	16.722	43.972	1.00	26.21
ATOM	363	CG	PRO	A	107	26.875	16.259	44.418	1.00	26.75
ATOM	364	CD	PRO	A	107	25.977	17.384	43.971	1.00	25.04
ATOM	365	N	PHE	A	108	28.695	19.435	42.299	1.00	25.94
ATOM	366	CA	PHE	A	108	29.556	20.218	41.384	1.00	26.76
ATOM	367	C	PHE	A	108	29.358	21.726	41.450	1.00	26.66
ATOM	368	O	PHE	A	108	30.103	22.494	40.778	1.00	26.81

FIG. 1F

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ATOM	369	CB	PHE	A	108	29.368	19.754	39.936	1.00	26.67
ATOM	370	CG	PHE	A	108	29.665	18.300	39.720	1.00	26.80
ATOM	371	CD1	PHE	A	108	30.531	17.614	40.569	1.00	27.67
ATOM	372	CD2	PHE	A	108	29.090	17.615	38.655	1.00	27.12
ATOM	373	CE1	PHE	A	108	30.819	16.262	40.359	1.00	27.99
ATOM	374	CE2	PHE	A	108	29.369	16.267	38.433	1.00	26.65
ATOM	375	CZ	PHE	A	108	30.235	15.587	39.286	1.00	26.94
ATOM	376	N	LEU	A	109	28.386	22.180	42.231	1.00	26.14
ATOM	377	CA	LEU	A	109	28.144	23.629	42.346	1.00	27.17
ATOM	378	C	LEU	A	109	28.914	24.248	43.510	1.00	29.20
ATOM	379	O	LEU	A	109	28.861	23.743	44.669	1.00	26.91
ATOM	380	CB	LEU	A	109	26.647	23.911	42.498	1.00	25.73
ATOM	381	CG	LEU	A	109	25.811	23.714	41.230	1.00	25.94
ATOM	382	CD1	LEU	A	109	24.343	23.983	41.530	1.00	24.99
ATOM	383	CD2	LEU	A	109	26.310	24.657	40.136	1.00	24.26
ATOM	384	N	HIS	A	110	29.632	25.328	43.213	1.00	32.94
ATOM	385	CA	HIS	A	110	30.442	26.077	44.207	1.00	35.82
ATOM	386	C	HIS	A	110	29.533	27.015	44.983	1.00	33.93
ATOM	387	O	HIS	A	110	29.732	27.265	46.209	1.00	34.20
ATOM	388	CB	HIS	A	110	31.501	26.915	43.485	1.00	42.49
ATOM	389	CG	HIS	A	110	32.907	26.469	43.732	1.00	47.84
ATOM	390	ND1	HIS	A	110	33.509	26.558	44.969	1.00	50.74
ATOM	391	CD2	HIS	A	110	33.834	25.934	42.899	1.00	49.74
ATOM	392	CE1	HIS	A	110	34.746	26.098	44.888	1.00	51.83
ATOM	393	NE2	HIS	A	110	34.968	25.713	43.644	1.00	51.38
ATOM	394	N	ARG	A	111	28.547	27.553	44.279	1.00	31.13
ATOM	395	CA	ARG	A	111	27.579	28.494	44.857	1.00	28.72
ATOM	396	C	ARG	A	111	26.287	28.331	44.072	1.00	28.16
ATOM	397	O	ARG	A	111	26.267	27.652	43.000	1.00	27.40
ATOM	398	CB	ARG	A	111	28.108	29.924	44.717	1.00	28.09
ATOM	399	CG	ARG	A	111	28.550	30.255	43.305	1.00	26.48
ATOM	400	CD	ARG	A	111	29.216	31.616	43.201	1.00	25.86
ATOM	401	NE	ARG	A	111	29.723	31.831	41.849	1.00	25.21
ATOM	402	CZ	ARG	A	111	30.423	32.892	41.465	1.00	24.44
ATOM	403	NH1	ARG	A	111	30.708	33.850	42.337	1.00	25.08
ATOM	404	NH2	ARG	A	111	30.828	32.995	40.205	1.00	22.62
ATOM	405	N	TYR	A	112	25.207	28.922	44.566	1.00	26.27
ATOM	406	CA	TYR	A	112	23.922	28.814	43.866	1.00	23.70
ATOM	407	C	TYR	A	112	22.955	29.916	44.250	1.00	22.77
ATOM	408	O	TYR	A	112	23.140	30.633	45.283	1.00	21.10
ATOM	409	CB	TYR	A	112	23.295	27.437	44.119	1.00	25.47
ATOM	410	CG	TYR	A	112	23.036	27.111	45.575	1.00	27.20
ATOM	411	CD1	TYR	A	112	21.885	27.569	46.222	1.00	28.51
ATOM	412	CD2	TYR	A	112	23.946	26.353	46.309	1.00	27.51
ATOM	413	CE1	TYR	A	112	21.647	27.276	47.565	1.00	27.78
ATOM	414	CE2	TYR	A	112	23.720	26.058	47.651	1.00	28.63
ATOM	415	CZ	TYR	A	112	22.570	26.522	48.270	1.00	28.98
ATOM	416	OH	TYR	A	112	22.352	26.228	49.591	1.00	30.28
ATOM	417	N	TYR	A	113	21.927	30.069	43.428	1.00	19.32
ATOM	418	CA	TYR	A	113	20.896	31.090	43.624	1.00	18.94
ATOM	419	C	TYR	A	113	20.047	30.807	44.857	1.00	17.90
ATOM	420	O	TYR	A	113	19.480	29.688	45.011	1.00	19.37
ATOM	421	CB	TYR	A	113	20.027	31.141	42.369	1.00	17.76
ATOM	422	CG	TYR	A	113	18.887	32.135	42.378	1.00	17.68
ATOM	423	CD1	TYR	A	113	19.024	33.397	42.963	1.00	16.86
ATOM	424	CD2	TYR	A	113	17.709	31.854	41.688	1.00	16.79
ATOM	425	CE1	TYR	A	113	18.020	34.349	42.848	1.00	17.05
ATOM	426	CE2	TYR	A	113	16.704	32.796	41.563	1.00	16.02
ATOM	427	CZ	TYR	A	113	16.858	34.038	42.138	1.00	17.36
ATOM	428	OH	TYR	A	113	15.848	34.963	41.984	1.00	16.62
ATOM	429	N	GLN	A	114	19.967	31.790	45.746	1.00	18.68
ATOM	430	CA	GLN	A	114	19.156	31.673	46.983	1.00	20.28

FIG. 1G

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ATOM	431	C	GLN A	114	18.057	32.719	46.897	1.00	19.59
ATOM	432	O	GLN A	114	18.285	33.933	47.192	1.00	20.34
ATOM	433	CB	GLN A	114	20.028	31.912	48.216	1.00	19.79
ATOM	434	CG	GLN A	114	21.048	30.814	48.434	1.00	22.79
ATOM	435	CD	GLN A	114	21.942	31.063	49.626	1.00	24.34
ATOM	436	OE1	GLN A	114	22.708	32.073	49.668	1.00	26.47
ATOM	437	NE2	GLN A	114	21.876	30.173	50.606	1.00	24.49
ATOM	438	N	ARG A	115	16.876	32.275	46.479	1.00	20.48
ATOM	439	CA	ARG A	115	15.703	33.159	46.305	1.00	21.24
ATOM	440	C	ARG A	115	15.234	33.837	47.583	1.00	21.94
ATOM	441	O	ARG A	115	14.784	35.022	47.546	1.00	21.40
ATOM	442	CB	ARG A	115	14.550	32.366	45.686	1.00	20.21
ATOM	443	CG	ARG A	115	14.807	31.953	44.240	1.00	20.95
ATOM	444	CD	ARG A	115	13.917	30.796	43.824	1.00	20.32
ATOM	445	NE	ARG A	115	14.305	29.567	44.508	1.00	20.45
ATOM	446	CZ	ARG A	115	13.626	28.428	44.448	1.00	19.47
ATOM	447	NH1	ARG A	115	12.514	28.352	43.732	1.00	20.02
ATOM	448	NH2	ARG A	115	14.061	27.366	45.106	1.00	21.63
ATOM	449	N	GLN A	116	15.323	33.138	48.710	1.00	22.93
ATOM	450	CA	GLN A	116	14.880	33.723	49.993	1.00	24.99
ATOM	451	C	GLN A	116	15.718	34.953	50.343	1.00	23.86
ATOM	452	O	GLN A	116	15.242	35.873	51.080	1.00	24.27
ATOM	453	CB	GLN A	116	14.972	32.691	51.123	1.00	27.81
ATOM	454	CG	GLN A	116	16.391	32.280	51.502	1.00	32.89
ATOM	455	CD	GLN A	116	16.999	31.257	50.550	1.00	36.05
ATOM	456	OE1	GLN A	116	16.955	31.423	49.295	1.00	36.88
ATOM	457	NE2	GLN A	116	17.577	30.199	51.112	1.00	37.21
ATOM	458	N	LEU A	117	16.944	35.006	49.833	1.00	20.91
ATOM	459	CA	LEU A	117	17.831	36.153	50.112	1.00	20.59
ATOM	460	C	LEU A	117	17.673	37.296	49.124	1.00	19.96
ATOM	461	O	LEU A	117	18.440	38.301	49.191	1.00	18.93
ATOM	462	CB	LEU A	117	19.296	35.707	50.128	1.00	21.68
ATOM	463	CG	LEU A	117	19.887	35.224	51.454	1.00	22.49
ATOM	464	CD1	LEU A	117	19.001	34.175	52.074	1.00	22.63
ATOM	465	CD2	LEU A	117	21.286	34.675	51.210	1.00	22.12
ATOM	466	N	SER A	118	16.714	37.183	48.210	1.00	18.14
ATOM	467	CA	SER A	118	16.484	38.252	47.208	1.00	17.08
ATOM	468	C	SER A	118	15.150	38.953	47.436	1.00	16.25
ATOM	469	O	SER A	118	14.055	38.316	47.347	1.00	16.00
ATOM	470	CB	SER A	118	16.519	37.679	45.787	1.00	15.12
ATOM	471	OG	SER A	118	16.301	38.708	44.835	1.00	16.81
ATOM	472	N	SER A	119	15.210	40.250	47.711	1.00	15.31
ATOM	473	CA	SER A	119	13.991	41.044	47.973	1.00	18.09
ATOM	474	C	SER A	119	13.169	41.307	46.714	1.00	17.35
ATOM	475	O	SER A	119	11.964	41.669	46.800	1.00	17.62
ATOM	476	CB	SER A	119	14.371	42.380	48.618	1.00	16.85
ATOM	477	OG	SER A	119	15.158	43.160	47.727	1.00	18.71
ATOM	478	N	THR A	120	13.781	41.137	45.546	1.00	18.90
ATOM	479	CA	THR A	120	13.075	41.381	44.263	1.00	17.26
ATOM	480	C	THR A	120	12.587	40.104	43.594	1.00	17.17
ATOM	481	O	THR A	120	12.004	40.139	42.466	1.00	18.70
ATOM	482	CB	THR A	120	13.980	42.143	43.283	1.00	17.78
ATOM	483	OG1	THR A	120	15.305	41.609	43.355	1.00	17.35
ATOM	484	CG2	THR A	120	14.012	43.630	43.624	1.00	17.37
ATOM	485	N	TYR A	121	12.800	38.977	44.257	1.00	18.03
ATOM	486	CA	TYR A	121	12.364	37.676	43.715	1.00	18.53
ATOM	487	C	TYR A	121	10.841	37.584	43.606	1.00	18.12
ATOM	488	O	TYR A	121	10.088	38.028	44.531	1.00	19.29
ATOM	489	CB	TYR A	121	12.878	36.547	44.607	1.00	18.32
ATOM	490	CG	TYR A	121	12.187	35.225	44.368	1.00	22.03
ATOM	491	CD1	TYR A	121	12.429	34.484	43.209	1.00	21.48
ATOM	492	CD2	TYR A	121	11.268	34.725	45.291	1.00	21.95

FIG. 1H

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ATOM	493	CE1	TYR	A	121	11.776	33.280	42.977	1.00	21.33
ATOM	494	CE2	TYR	A	121	10.608	33.523	45.067	1.00	22.77
ATOM	495	CZ	TYR	A	121	10.867	32.807	43.908	1.00	23.35
ATOM	496	OH	TYR	A	121	10.206	31.622	43.682	1.00	23.63
ATOM	497	N	ARG	A	122	10.365	37.039	42.492	1.00	16.86
ATOM	498	CA	ARG	A	122	8.909	36.851	42.281	1.00	16.79
ATOM	499	C	ARG	A	122	8.703	35.397	41.890	1.00	17.46
ATOM	500	O	ARG	A	122	9.348	34.884	40.924	1.00	17.88
ATOM	501	CB	ARG	A	122	8.384	37.764	41.174	1.00	14.87
ATOM	502	CG	ARG	A	122	8.335	39.230	41.548	1.00	14.83
ATOM	503	CD	ARG	A	122	7.895	40.067	40.369	1.00	14.98
ATOM	504	NE	ARG	A	122	7.822	41.481	40.706	1.00	16.19
ATOM	505	CZ	ARG	A	122	7.546	42.442	39.833	1.00	16.67
ATOM	506	NH1	ARG	A	122	7.316	42.142	38.559	1.00	15.67
ATOM	507	NH2	ARG	A	122	7.505	43.704	40.233	1.00	16.38
ATOM	508	N	ASP	A	123	7.836	34.720	42.628	1.00	18.52
ATOM	509	CA	ASP	A	123	7.538	33.296	42.388	1.00	19.00
ATOM	510	C	ASP	A	123	6.435	33.147	41.347	1.00	19.87
ATOM	511	O	ASP	A	123	5.342	33.757	41.490	1.00	17.59
ATOM	512	CB	ASP	A	123	7.090	32.657	43.702	1.00	19.80
ATOM	513	CG	ASP	A	123	6.841	31.171	43.582	1.00	20.76
ATOM	514	OD1	ASP	A	123	6.933	30.615	42.463	1.00	20.41
ATOM	515	OD2	ASP	A	123	6.549	30.559	44.629	1.00	22.50
ATOM	516	N	LEU	A	124	6.689	32.359	40.305	1.00	20.70
ATOM	517	CA	LEU	A	124	5.672	32.139	39.255	1.00	21.20
ATOM	518	C	LEU	A	124	4.790	30.929	39.562	1.00	21.64
ATOM	519	O	LEU	A	124	3.832	30.601	38.786	1.00	21.17
ATOM	520	CB	LEU	A	124	6.343	31.978	37.888	1.00	21.51
ATOM	521	CG	LEU	A	124	6.850	33.288	37.270	1.00	22.05
ATOM	522	CD1	LEU	A	124	7.617	32.994	35.997	1.00	22.23
ATOM	523	CD2	LEU	A	124	5.678	34.217	36.983	1.00	21.49
ATOM	524	N	ARG	A	125	5.083	30.252	40.666	1.00	22.67
ATOM	525	CA	ARG	A	125	4.286	29.078	41.085	1.00	25.58
ATOM	526	C	ARG	A	125	4.106	28.081	39.944	1.00	26.39
ATOM	527	O	ARG	A	125	2.974	27.552	39.719	1.00	26.83
ATOM	528	CB	ARG	A	125	2.918	29.553	41.593	1.00	26.62
ATOM	529	CG	ARG	A	125	3.016	30.511	42.783	1.00	30.02
ATOM	530	CD	ARG	A	125	1.733	31.311	43.002	1.00	32.48
ATOM	531	NE	ARG	A	125	1.910	32.334	44.034	1.00	36.63
ATOM	532	CZ	ARG	A	125	1.049	33.323	44.282	1.00	38.12
ATOM	533	NH1	ARG	A	125	-0.070	33.441	43.575	1.00	37.55
ATOM	534	NH2	ARG	A	125	1.307	34.202	45.240	1.00	38.11
ATOM	535	N	LYS	A	126	5.189	27.810	39.221	1.00	26.62
ATOM	536	CA	LYS	A	126	5.162	26.861	38.079	1.00	26.41
ATOM	537	C	LYS	A	126	6.453	26.063	37.986	1.00	24.61
ATOM	538	O	LYS	A	126	7.577	26.624	38.141	1.00	22.46
ATOM	539	CB	LYS	A	126	4.971	27.605	36.756	1.00	28.55
ATOM	540	CG	LYS	A	126	3.539	27.804	36.326	1.00	32.76
ATOM	541	CD	LYS	A	126	3.486	28.380	34.917	1.00	36.53
ATOM	542	CE	LYS	A	126	2.048	28.607	34.456	1.00	38.52
ATOM	543	NZ	LYS	A	126	1.234	27.355	34.550	1.00	40.78
ATOM	544	N	GLY	A	127	6.326	24.770	37.731	1.00	23.25
ATOM	545	CA	GLY	A	127	7.504	23.941	37.598	1.00	22.82
ATOM	546	C	GLY	A	127	7.970	23.995	36.157	1.00	22.77
ATOM	547	O	GLY	A	127	7.220	24.487	35.252	1.00	22.00
ATOM	548	N	VAL	A	128	9.184	23.521	35.909	1.00	21.58
ATOM	549	CA	VAL	A	128	9.731	23.511	34.541	1.00	22.39
ATOM	550	C	VAL	A	128	10.736	22.388	34.390	1.00	21.31
ATOM	551	O	VAL	A	128	11.547	22.101	35.323	1.00	21.59
ATOM	552	CB	VAL	A	128	10.416	24.851	34.180	1.00	21.77
ATOM	553	CG1	VAL	A	128	11.572	25.120	35.122	1.00	22.15
ATOM	554	CG2	VAL	A	128	10.903	24.809	32.740	1.00	23.66

FIG. 11

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ATOM	555	N	TYR A	129	10.700	21.744	33.233	1.00	21.64
ATOM	556	CA	TYR A	129	11.598	20.624	32.933	1.00	21.55
ATOM	557	C	TYR A	129	12.298	20.882	31.609	1.00	20.25
ATOM	558	O	TYR A	129	11.635	21.188	30.573	1.00	20.01
ATOM	559	CB	TYR A	129	10.785	19.333	32.841	1.00	23.37
ATOM	560	CG	TYR A	129	11.545	18.164	32.271	1.00	26.64
ATOM	561	CD1	TYR A	129	12.628	17.613	32.956	1.00	27.70
ATOM	562	CD2	TYR A	129	11.178	17.598	31.048	1.00	27.27
ATOM	563	CE1	TYR A	129	13.323	16.529	32.443	1.00	29.33
ATOM	564	CE2	TYR A	129	11.872	16.507	30.524	1.00	28.75
ATOM	565	CZ	TYR A	129	12.942	15.980	31.231	1.00	28.91
ATOM	566	OH	TYR A	129	13.634	14.896	30.751	1.00	30.21
ATOM	567	N	VAL A	130	13.620	20.782	31.602	1.00	19.35
ATOM	568	CA	VAL A	130	14.353	21.003	30.350	1.00	17.21
ATOM	569	C	VAL A	130	15.308	19.872	30.022	1.00	16.02
ATOM	570	O	VAL A	130	16.319	19.628	30.748	1.00	16.89
ATOM	571	CB	VAL A	130	15.136	22.334	30.370	1.00	17.86
ATOM	572	CG1	VAL A	130	15.934	22.485	29.075	1.00	15.31
ATOM	573	CG2	VAL A	130	14.163	23.505	30.525	1.00	15.67
ATOM	574	N	PRO A	131	15.013	19.136	28.945	1.00	14.83
ATOM	575	CA	PRO A	131	15.868	18.028	28.529	1.00	14.77
ATOM	576	C	PRO A	131	16.743	18.516	27.372	1.00	15.00
ATOM	577	O	PRO A	131	16.234	19.154	26.402	1.00	15.43
ATOM	578	CB	PRO A	131	14.857	16.971	28.106	1.00	13.57
ATOM	579	CG	PRO A	131	13.809	17.806	27.421	1.00	13.44
ATOM	580	CD	PRO A	131	13.706	19.078	28.262	1.00	13.99
ATOM	581	N	TYR A	132	18.043	18.268	27.465	1.00	14.75
ATOM	582	CA	TYR A	132	18.989	18.679	26.404	1.00	17.37
ATOM	583	C	TYR A	132	19.438	17.415	25.676	1.00	17.52
ATOM	584	O	TYR A	132	19.100	16.274	26.105	1.00	17.41
ATOM	585	CB	TYR A	132	20.211	19.369	27.020	1.00	16.93
ATOM	586	CG	TYR A	132	19.909	20.665	27.742	1.00	18.63
ATOM	587	CD1	TYR A	132	19.834	21.881	27.051	1.00	17.88
ATOM	588	CD2	TYR A	132	19.706	20.681	29.122	1.00	19.01
ATOM	589	CE1	TYR A	132	19.564	23.080	27.722	1.00	16.57
ATOM	590	CE2	TYR A	132	19.435	21.867	29.799	1.00	17.74
ATOM	591	CZ	TYR A	132	19.365	23.062	29.098	1.00	19.02
ATOM	592	OH	TYR A	132	19.083	24.229	29.782	1.00	18.23
ATOM	593	N	THR A	133	20.188	17.574	24.592	1.00	18.46
ATOM	594	CA	THR A	133	20.686	16.403	23.842	1.00	18.54
ATOM	595	C	THR A	133	21.525	15.580	24.812	1.00	20.42
ATOM	596	O	THR A	133	21.667	14.325	24.672	1.00	19.49
ATOM	597	CB	THR A	133	21.546	16.846	22.653	1.00	18.40
ATOM	598	OG1	THR A	133	20.720	17.539	21.708	1.00	20.46
ATOM	599	CG2	THR A	133	22.194	15.645	21.976	1.00	18.37
ATOM	600	N	GLN A	134	22.064	16.265	25.810	1.00	22.23
ATOM	601	CA	GLN A	134	22.890	15.624	26.842	1.00	24.27
ATOM	602	C	GLN A	134	22.723	16.406	28.140	1.00	23.32
ATOM	603	O	GLN A	134	23.179	17.580	28.252	1.00	21.03
ATOM	604	CB	GLN A	134	24.352	15.633	26.405	1.00	28.22
ATOM	605	CG	GLN A	134	25.140	14.412	26.808	1.00	32.76
ATOM	606	CD	GLN A	134	25.020	13.296	25.781	1.00	36.63
ATOM	607	OE1	GLN A	134	26.052	12.680	25.356	1.00	37.34
ATOM	608	NE2	GLN A	134	23.791	13.018	25.352	1.00	38.92
ATOM	609	N	GLY A	135	22.080	15.789	29.124	1.00	23.28
ATOM	610	CA	GLY A	135	21.863	16.460	30.391	1.00	21.50
ATOM	611	C	GLY A	135	20.432	16.946	30.483	1.00	22.11
ATOM	612	O	GLY A	135	19.735	17.111	29.435	1.00	20.68
ATOM	613	N	LYS A	136	19.968	17.190	31.703	1.00	22.97
ATOM	614	CA	LYS A	136	18.584	17.654	31.923	1.00	23.80
ATOM	615	C	LYS A	136	18.429	18.147	33.353	1.00	22.33
ATOM	616	O	LYS A	136	19.196	17.719	34.269	1.00	21.42

FIG. 1J

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ATOM	617	CB	LYS A	136	17.606	16.501	31.677	1.00	25.37
ATOM	618	CG	LYS A	136	17.823	15.310	32.607	1.00	28.29
ATOM	619	CD	LYS A	136	16.804	14.196	32.374	1.00	31.54
ATOM	620	CE	LYS A	136	16.955	13.570	31.000	1.00	34.21
ATOM	621	NZ	LYS A	136	15.996	12.444	30.789	1.00	37.76
ATOM	622	N	TRP A	137	17.470	19.040	33.573	1.00	21.02
ATOM	623	CA	TRP A	137	17.214	19.562	34.928	1.00	20.75
ATOM	624	C	TRP A	137	15.750	19.907	35.133	1.00	20.62
ATOM	625	O	TRP A	137	14.951	19.978	34.153	1.00	20.05
ATOM	626	CB	TRP A	137	18.077	20.800	35.231	1.00	18.46
ATOM	627	CG	TRP A	137	17.960	21.937	34.248	1.00	18.02
ATOM	628	CD1	TRP A	137	18.865	22.276	33.281	1.00	18.12
ATOM	629	CD2	TRP A	137	16.881	22.879	34.134	1.00	17.27
ATOM	630	NE1	TRP A	137	18.419	23.369	32.574	1.00	17.78
ATOM	631	CE2	TRP A	137	17.204	23.758	33.074	1.00	17.40
ATOM	632	CE3	TRP A	137	15.675	23.067	34.823	1.00	17.08
ATOM	633	CZ2	TRP A	137	16.363	24.807	32.684	1.00	15.50
ATOM	634	CZ3	TRP A	137	14.836	24.113	34.434	1.00	17.23
ATOM	635	CH2	TRP A	137	15.188	24.968	33.373	1.00	17.46
ATOM	636	N	GLU A	138	15.385	20.098	36.395	1.00	21.53
ATOM	637	CA	GLU A	138	14.014	20.472	36.789	1.00	24.94
ATOM	638	C	GLU A	138	14.166	21.642	37.745	1.00	23.18
ATOM	639	O	GLU A	138	15.168	21.719	38.526	1.00	21.21
ATOM	640	CB	GLU A	138	13.320	19.320	37.515	1.00	28.46
ATOM	641	CG	GLU A	138	13.053	18.101	36.656	1.00	34.91
ATOM	642	CD	GLU A	138	12.562	16.919	37.472	1.00	37.93
ATOM	643	OE1	GLU A	138	12.175	15.897	36.864	1.00	40.28
ATOM	644	OE2	GLU A	138	12.570	17.009	38.722	1.00	40.20
ATOM	645	N	GLY A	139	13.214	22.559	37.711	1.00	22.13
ATOM	646	CA	GLY A	139	13.298	23.693	38.604	1.00	22.60
ATOM	647	C	GLY A	139	11.975	24.402	38.713	1.00	21.54
ATOM	648	O	GLY A	139	10.949	23.953	38.116	1.00	23.29
ATOM	649	N	GLU A	140	11.962	25.494	39.465	1.00	21.74
ATOM	650	CA	GLU A	140	10.733	26.284	39.648	1.00	21.81
ATOM	651	C	GLU A	140	10.900	27.646	38.998	1.00	19.04
ATOM	652	O	GLU A	140	11.975	28.304	39.125	1.00	18.42
ATOM	653	CB	GLU A	140	10.404	26.425	41.139	1.00	24.39
ATOM	654	CG	GLU A	140	11.479	25.887	42.065	1.00	28.61
ATOM	655	CD	GLU A	140	10.922	25.385	43.383	1.00	29.72
ATOM	656	OE1	GLU A	140	10.311	24.297	43.389	1.00	31.43
ATOM	657	OE2	GLU A	140	11.091	26.077	44.410	1.00	30.48
ATOM	658	N	LEU A	141	9.870	28.071	38.278	1.00	16.35
ATOM	659	CA	LEU A	141	9.901	29.360	37.585	1.00	15.48
ATOM	660	C	LEU A	141	9.674	30.546	38.511	1.00	15.68
ATOM	661	O	LEU A	141	8.832	30.499	39.466	1.00	13.45
ATOM	662	CB	LEU A	141	8.864	29.376	36.460	1.00	15.23
ATOM	663	CG	LEU A	141	9.145	28.412	35.300	1.00	16.27
ATOM	664	CD1	LEU A	141	8.008	28.461	34.300	1.00	15.60
ATOM	665	CD2	LEU A	141	10.458	28.785	34.627	1.00	16.48
ATOM	666	N	GLY A	142	10.424	31.608	38.241	1.00	15.15
ATOM	667	CA	GLY A	142	10.323	32.819	39.015	1.00	12.33
ATOM	668	C	GLY A	142	10.845	33.953	38.167	1.00	14.67
ATOM	669	O	GLY A	142	11.242	33.758	36.971	1.00	13.75
ATOM	670	N	THR A	143	10.877	35.137	38.754	1.00	14.88
ATOM	671	CA	THR A	143	11.354	36.324	38.050	1.00	15.26
ATOM	672	C	THR A	143	12.262	37.103	39.008	1.00	14.53
ATOM	673	O	THR A	143	12.119	36.991	40.269	1.00	13.46
ATOM	674	CB	THR A	143	10.131	37.154	37.600	1.00	16.18
ATOM	675	OG1	THR A	143	10.192	37.362	36.187	1.00	20.69
ATOM	676	CG2	THR A	143	10.058	38.465	38.325	1.00	12.43
ATOM	677	N	ASP A	144	13.202	37.866	38.466	1.00	14.22
ATOM	678	CA	ASP A	144	14.117	38.652	39.321	1.00	15.38

FIG. 1K

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ATOM	679	C	ASP A	144	14.942	39.609	38.479	1.00	15.67
ATOM	680	O	ASP A	144	14.984	39.496	37.208	1.00	16.83
ATOM	681	CB	ASP A	144	15.063	37.721	40.086	1.00	15.20
ATOM	682	CG	ASP A	144	15.367	38.218	41.496	1.00	17.84
ATOM	683	OD1	ASP A	144	15.359	39.447	41.724	1.00	16.62
ATOM	684	OD2	ASP A	144	15.630	37.373	42.379	1.00	16.33
ATOM	685	N	LEU A	145	15.596	40.551	39.147	1.00	16.74
ATOM	686	CA	LEU A	145	16.442	41.537	38.454	1.00	18.66
ATOM	687	C	LEU A	145	17.757	40.854	38.101	1.00	20.21
ATOM	688	O	LEU A	145	18.381	40.147	38.961	1.00	21.75
ATOM	689	CB	LEU A	145	16.697	42.746	39.351	1.00	18.43
ATOM	690	CG	LEU A	145	15.452	43.522	39.786	1.00	19.69
ATOM	691	CD1	LEU A	145	15.878	44.720	40.628	1.00	19.11
ATOM	692	CD2	LEU A	145	14.660	43.971	38.557	1.00	18.50
ATOM	693	N	VAL A	146	18.186	41.030	36.858	1.00	20.48
ATOM	694	CA	VAL A	146	19.426	40.402	36.387	1.00	21.21
ATOM	695	C	VAL A	146	20.331	41.426	35.725	1.00	22.80
ATOM	696	O	VAL A	146	19.849	42.386	35.045	1.00	22.16
ATOM	697	CB	VAL A	146	19.118	39.265	35.373	1.00	20.39
ATOM	698	CG1	VAL A	146	20.405	38.575	34.941	1.00	20.39
ATOM	699	CG2	VAL A	146	18.163	38.261	35.998	1.00	17.90
ATOM	700	N	SER A	147	21.633	41.251	35.913	1.00	22.35
ATOM	701	CA	SER A	147	22.615	42.158	35.309	1.00	23.39
ATOM	702	C	SER A	147	23.829	41.383	34.833	1.00	21.77
ATOM	703	O	SER A	147	24.119	40.242	35.321	1.00	20.08
ATOM	704	CB	SER A	147	23.059	43.225	36.316	1.00	25.41
ATOM	705	OG	SER A	147	21.993	44.107	36.627	1.00	31.97
ATOM	706	N	ILE A	148	24.534	41.972	33.878	1.00	19.69
ATOM	707	CA	ILE A	148	25.757	41.377	33.329	1.00	19.14
ATOM	708	C	ILE A	148	26.853	42.405	33.614	1.00	18.85
ATOM	709	O	ILE A	148	27.021	43.408	32.853	1.00	17.87
ATOM	710	CB	ILE A	148	25.618	41.137	31.817	1.00	18.61
ATOM	711	CG1	ILE A	148	24.449	40.181	31.559	1.00	19.01
ATOM	712	CG2	ILE A	148	26.909	40.564	31.255	1.00	17.68
ATOM	713	CD1	ILE A	148	24.221	39.864	30.097	1.00	19.61
ATOM	714	N	PRO A	149	27.601	42.214	34.711	1.00	17.99
ATOM	715	CA	PRO A	149	28.679	43.134	35.095	1.00	21.17
ATOM	716	C	PRO A	149	29.523	43.638	33.926	1.00	22.18
ATOM	717	O	PRO A	149	29.800	44.869	33.823	1.00	24.08
ATOM	718	CB	PRO A	149	29.485	42.317	36.103	1.00	19.87
ATOM	719	CG	PRO A	149	28.404	41.529	36.797	1.00	19.57
ATOM	720	CD	PRO A	149	27.542	41.061	35.628	1.00	17.55
ATOM	721	N	HIS A	150	29.930	42.733	33.041	1.00	23.43
ATOM	722	CA	HIS A	150	30.748	43.119	31.869	1.00	23.84
ATOM	723	C	HIS A	150	29.933	43.067	30.588	1.00	24.47
ATOM	724	O	HIS A	150	30.334	42.431	29.566	1.00	25.89
ATOM	725	CB	HIS A	150	31.968	42.211	31.765	1.00	23.54
ATOM	726	CG	HIS A	150	32.880	42.313	32.945	1.00	26.15
ATOM	727	ND1	HIS A	150	33.619	43.446	33.216	1.00	27.28
ATOM	728	CD2	HIS A	150	33.149	41.439	33.943	1.00	26.32
ATOM	729	CE1	HIS A	150	34.305	43.264	34.330	1.00	27.48
ATOM	730	NE2	HIS A	150	34.038	42.055	34.791	1.00	28.01
ATOM	731	N	GLY A	151	28.785	43.727	30.630	1.00	25.49
ATOM	732	CA	GLY A	151	27.906	43.784	29.485	1.00	26.41
ATOM	733	C	GLY A	151	27.325	45.179	29.468	1.00	27.16
ATOM	734	O	GLY A	151	27.981	46.136	29.983	1.00	26.97
ATOM	735	N	PRO A	152	26.125	45.370	28.903	1.00	28.12
ATOM	736	CA	PRO A	152	25.540	46.712	28.880	1.00	28.75
ATOM	737	C	PRO A	152	25.219	47.165	30.304	1.00	30.53
ATOM	738	O	PRO A	152	24.844	46.331	31.182	1.00	28.62
ATOM	739	CB	PRO A	152	24.294	46.528	28.017	1.00	29.49
ATOM	740	CG	PRO A	152	23.897	45.105	28.303	1.00	29.85

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ATOM	741	CD	PRO A	152	25.227	44.385	28.277	1.00	28.15
ATOM	742	N	ASN A	153	25.375	48.457	30.560	1.00	33.03
ATOM	743	CA	ASN A	153	25.111	49.016	31.902	1.00	34.39
ATOM	744	C	ASN A	153	23.604	49.096	32.144	1.00	33.81
ATOM	745	O	ASN A	153	23.009	50.218	32.222	1.00	33.63
ATOM	746	CB	ASN A	153	25.755	50.401	32.009	1.00	37.16
ATOM	747	CG	ASN A	153	25.680	50.978	33.406	1.00	38.88
ATOM	748	OD1	ASN A	153	25.974	50.272	34.416	1.00	40.17
ATOM	749	ND2	ASN A	153	25.309	52.251	33.504	1.00	39.91
ATOM	750	N	VAL A	154	22.971	47.934	32.265	1.00	31.55
ATOM	751	CA	VAL A	154	21.514	47.872	32.486	1.00	29.59
ATOM	752	C	VAL A	154	21.113	46.739	33.418	1.00	29.47
ATOM	753	O	VAL A	154	21.924	45.809	33.718	1.00	30.24
ATOM	754	CB	VAL A	154	20.755	47.681	31.154	1.00	29.95
ATOM	755	CG1	VAL A	154	20.990	48.875	30.242	1.00	29.70
ATOM	756	CG2	VAL A	154	21.216	46.397	30.474	1.00	28.94
ATOM	757	N	THR A	155	19.874	46.799	33.882	1.00	27.83
ATOM	758	CA	THR A	155	19.323	45.773	34.779	1.00	27.61
ATOM	759	C	THR A	155	17.918	45.472	34.296	1.00	26.01
ATOM	760	O	THR A	155	17.114	46.413	34.041	1.00	27.70
ATOM	761	CB	THR A	155	19.268	46.280	36.229	1.00	27.24
ATOM	762	OG1	THR A	155	20.603	46.486	36.703	1.00	29.54
ATOM	763	CG2	THR A	155	18.573	45.270	37.129	1.00	27.37
ATOM	764	N	VAL A	156	17.592	44.197	34.143	1.00	24.69
ATOM	765	CA	VAL A	156	16.241	43.847	33.672	1.00	24.32
ATOM	766	C	VAL A	156	15.631	42.736	34.504	1.00	23.23
ATOM	767	O	VAL A	156	16.364	41.920	35.154	1.00	23.57
ATOM	768	CB	VAL A	156	16.253	43.402	32.184	1.00	25.34
ATOM	769	CG1	VAL A	156	17.178	44.302	31.379	1.00	26.63
ATOM	770	CG2	VAL A	156	16.684	41.960	32.063	1.00	24.89
ATOM	771	N	ARG A	157	14.306	42.687	34.521	1.00	21.44
ATOM	772	CA	ARG A	157	13.613	41.626	35.262	1.00	20.90
ATOM	773	C	ARG A	157	13.374	40.560	34.215	1.00	20.13
ATOM	774	O	ARG A	157	12.746	40.836	33.152	1.00	19.99
ATOM	775	CB	ARG A	157	12.280	42.121	35.830	1.00	20.03
ATOM	776	CG	ARG A	157	11.528	41.053	36.621	1.00	18.95
ATOM	777	CD	ARG A	157	10.271	41.616	37.260	1.00	18.99
ATOM	778	NE	ARG A	157	10.554	42.408	38.456	1.00	18.47
ATOM	779	CZ	ARG A	157	10.973	41.902	39.613	1.00	19.19
ATOM	780	NH1	ARG A	157	11.167	40.596	39.747	1.00	18.30
ATOM	781	NH2	ARG A	157	11.178	42.703	40.650	1.00	15.82
ATOM	782	N	ALA A	158	13.878	39.359	34.463	1.00	20.27
ATOM	783	CA	ALA A	158	13.713	38.266	33.496	1.00	19.08
ATOM	784	C	ALA A	158	13.279	36.986	34.175	1.00	19.45
ATOM	785	O	ALA A	158	13.379	36.845	35.432	1.00	19.64
ATOM	786	CB	ALA A	158	15.017	38.031	32.756	1.00	18.56
ATOM	787	N	ASN A	159	12.792	36.053	33.370	1.00	18.08
ATOM	788	CA	ASN A	159	12.363	34.756	33.876	1.00	18.21
ATOM	789	C	ASN A	159	13.607	33.992	34.282	1.00	18.60
ATOM	790	O	ASN A	159	14.666	34.033	33.577	1.00	19.42
ATOM	791	CB	ASN A	159	11.601	33.992	32.797	1.00	16.91
ATOM	792	CG	ASN A	159	10.282	34.647	32.459	1.00	18.46
ATOM	793	OD1	ASN A	159	9.479	34.978	33.381	1.00	19.46
ATOM	794	ND2	ASN A	159	10.020	34.848	31.174	1.00	16.51
ATOM	795	N	ILE A	160	13.518	33.311	35.412	1.00	18.73
ATOM	796	CA	ILE A	160	14.643	32.529	35.916	1.00	17.64
ATOM	797	C	ILE A	160	14.112	31.191	36.373	1.00	19.09
ATOM	798	O	ILE A	160	13.122	31.125	37.176	1.00	18.38
ATOM	799	CB	ILE A	160	15.319	33.212	37.128	1.00	18.36
ATOM	800	CG1	ILE A	160	15.764	34.629	36.758	1.00	17.90
ATOM	801	CG2	ILE A	160	16.521	32.394	37.585	1.00	17.16
ATOM	802	CD1	ILE A	160	16.521	35.336	37.875	1.00	18.56

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ATOM	803	N	ALA A	161	14.717	30.123	35.871	1.00	17.55
ATOM	804	CA	ALA A	161	14.314	28.778	36.275	1.00	18.11
ATOM	805	C	ALA A	161	15.267	28.394	37.399	1.00	18.26
ATOM	806	O	ALA A	161	16.507	28.223	37.166	1.00	17.61
ATOM	807	CB	ALA A	161	14.447	27.805	35.105	1.00	17.28
ATOM	808	N	ALA A	162	14.737	28.283	38.614	1.00	17.99
ATOM	809	CA	ALA A	162	15.567	27.901	39.775	1.00	18.02
ATOM	810	C	ALA A	162	15.746	26.382	39.774	1.00	18.52
ATOM	811	O	ALA A	162	14.835	25.619	40.207	1.00	18.43
ATOM	812	CB	ALA A	162	14.897	28.359	41.067	1.00	17.36
ATOM	813	N	ILE A	163	16.900	25.928	39.300	1.00	19.89
ATOM	814	CA	ILE A	163	17.204	24.480	39.215	1.00	18.56
ATOM	815	C	ILE A	163	17.314	23.802	40.577	1.00	20.34
ATOM	816	O	ILE A	163	18.238	24.122	41.402	1.00	19.83
ATOM	817	CB	ILE A	163	18.512	24.245	38.430	1.00	17.19
ATOM	818	CG1	ILE A	163	18.347	24.753	36.994	1.00	16.02
ATOM	819	CG2	ILE A	163	18.874	22.761	38.445	1.00	14.93
ATOM	820	CD1	ILE A	163	19.628	24.735	36.174	1.00	16.24
ATOM	821	N	THR A	164	16.409	22.860	40.826	1.00	20.42
ATOM	822	CA	THR A	164	16.379	22.122	42.112	1.00	23.01
ATOM	823	C	THR A	164	16.817	20.665	41.958	1.00	24.30
ATOM	824	O	THR A	164	17.119	19.966	42.973	1.00	26.25
ATOM	825	CB	THR A	164	14.966	22.173	42.735	1.00	22.01
ATOM	826	OG1	THR A	164	13.990	21.799	41.754	1.00	22.15
ATOM	827	CG2	THR A	164	14.656	23.584	43.214	1.00	22.73
ATOM	828	N	GLU A	165	16.858	20.187	40.721	1.00	25.84
ATOM	829	CA	GLU A	165	17.281	18.804	40.444	1.00	27.82
ATOM	830	C	GLU A	165	17.800	18.693	39.024	1.00	26.80
ATOM	831	O	GLU A	165	17.246	19.323	38.072	1.00	26.59
ATOM	832	CB	GLU A	165	16.121	17.834	40.678	1.00	31.67
ATOM	833	CG	GLU A	165	16.233	17.118	42.020	1.00	38.94
ATOM	834	CD	GLU A	165	14.913	16.568	42.519	1.00	41.54
ATOM	835	OE1	GLU A	165	14.282	15.765	41.796	1.00	44.35
ATOM	836	OE2	GLU A	165	14.510	16.940	43.644	1.00	43.84
ATOM	837	N	SER A	166	18.861	17.919	38.852	1.00	24.81
ATOM	838	CA	SER A	166	19.455	17.765	37.525	1.00	25.32
ATOM	839	C	SER A	166	20.213	16.459	37.397	1.00	25.44
ATOM	840	O	SER A	166	20.551	15.795	38.427	1.00	24.00
ATOM	841	CB	SER A	166	20.405	18.928	37.255	1.00	23.13
ATOM	842	OG	SER A	166	21.444	18.939	38.217	1.00	21.22
ATOM	843	N	ASP A	167	20.490	16.079	36.155	1.00	26.01
ATOM	844	CA	ASP A	167	21.227	14.842	35.871	1.00	26.62
ATOM	845	C	ASP A	167	22.138	15.038	34.671	1.00	25.62
ATOM	846	O	ASP A	167	21.656	15.300	33.528	1.00	24.35
ATOM	847	CB	ASP A	167	20.253	13.691	35.601	1.00	30.53
ATOM	848	CG	ASP A	167	20.966	12.370	35.387	1.00	32.67
ATOM	849	OD1	ASP A	167	21.912	12.083	36.152	1.00	36.14
ATOM	850	OD2	ASP A	167	20.586	11.615	34.469	1.00	34.63
ATOM	851	N	LYS A	168	23.440	14.930	34.910	1.00	25.32
ATOM	852	CA	LYS A	168	24.461	15.078	33.847	1.00	25.94
ATOM	853	C	LYS A	168	24.416	16.445	33.175	1.00	25.49
ATOM	854	O	LYS A	168	24.742	16.580	31.955	1.00	25.50
ATOM	855	CB	LYS A	168	24.282	13.979	32.800	1.00	27.68
ATOM	856	CG	LYS A	168	24.408	12.570	33.362	1.00	30.33
ATOM	857	CD	LYS A	168	24.117	11.532	32.292	1.00	32.36
ATOM	858	CE	LYS A	168	24.205	10.126	32.855	1.00	34.37
ATOM	859	NZ	LYS A	168	23.889	9.101	31.821	1.00	36.50
ATOM	860	N	PHE A	169	24.024	17.460	33.937	1.00	22.87
ATOM	861	CA	PHE A	169	23.942	18.835	33.418	1.00	20.96
ATOM	862	C	PHE A	169	25.158	19.616	33.897	1.00	22.06
ATOM	863	O	PHE A	169	25.983	20.119	33.069	1.00	20.71
ATOM	864	CB	PHE A	169	22.668	19.506	33.919	1.00	19.76

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ATOM	865	CG	PHE	A	169	22.526	20.931	33.479	1.00	18.95
ATOM	866	CD1	PHE	A	169	22.400	21.248	32.130	1.00	18.27
ATOM	867	CD2	PHE	A	169	22.525	21.963	34.416	1.00	18.36
ATOM	868	CE1	PHE	A	169	22.275	22.571	31.720	1.00	16.94
ATOM	869	CE2	PHE	A	169	22.401	23.287	34.013	1.00	17.25
ATOM	870	CZ	PHE	A	169	22.275	23.590	32.661	1.00	16.89
ATOM	871	N	PHE	A	170	25.292	19.738	35.212	1.00	20.46
ATOM	872	CA	PHE	A	170	26.438	20.452	35.788	1.00	21.45
ATOM	873	C	PHE	A	170	27.702	19.620	35.574	1.00	22.40
ATOM	874	O	PHE	A	170	27.675	18.355	35.665	1.00	22.55
ATOM	875	CB	PHE	A	170	26.205	20.705	37.281	1.00	19.44
ATOM	876	CG	PHE	A	170	25.079	21.663	37.559	1.00	18.44
ATOM	877	CD1	PHE	A	170	23.988	21.276	38.330	1.00	18.45
ATOM	878	CD2	PHE	A	170	25.098	22.948	37.025	1.00	16.73
ATOM	879	CE1	PHE	A	170	22.932	22.154	38.563	1.00	17.50
ATOM	880	CE2	PHE	A	170	24.046	23.832	37.253	1.00	17.78
ATOM	881	CZ	PHE	A	170	22.963	23.432	38.023	1.00	16.39
ATOM	882	N	ILE	A	171	28.805	20.297	35.272	1.00	23.10
ATOM	883	CA	ILE	A	171	30.095	19.615	35.043	1.00	22.87
ATOM	884	C	ILE	A	171	31.057	19.962	36.163	1.00	24.02
ATOM	885	O	ILE	A	171	31.222	21.162	36.537	1.00	22.48
ATOM	886	CB	ILE	A	171	30.729	20.048	33.704	1.00	24.70
ATOM	887	CG1	ILE	A	171	29.823	19.632	32.544	1.00	22.57
ATOM	888	CG2	ILE	A	171	32.123	19.434	33.558	1.00	22.35
ATOM	889	CD1	ILE	A	171	30.319	20.100	31.192	1.00	23.46
ATOM	890	N	ASN	A	172	31.702	18.942	36.709	1.00	27.12
ATOM	891	CA	ASN	A	172	32.657	19.143	37.809	1.00	30.01
ATOM	892	C	ASN	A	172	33.864	19.975	37.359	1.00	29.57
ATOM	893	O	ASN	A	172	34.616	19.574	36.418	1.00	29.20
ATOM	894	CB	ASN	A	172	33.105	17.779	38.337	1.00	31.92
ATOM	895	CG	ASN	A	172	33.913	17.885	39.608	1.00	34.74
ATOM	896	OD1	ASN	A	172	33.615	18.737	40.504	1.00	36.04
ATOM	897	ND2	ASN	A	172	34.927	17.034	39.734	1.00	36.14
ATOM	898	N	GLY	A	173	34.049	21.132	37.991	1.00	28.24
ATOM	899	CA	GLY	A	173	35.166	22.001	37.659	1.00	27.99
ATOM	900	C	GLY	A	173	34.973	22.938	36.476	1.00	28.87
ATOM	901	O	GLY	A	173	35.944	23.644	36.063	1.00	29.20
ATOM	902	N	SER	A	174	33.769	22.988	35.914	1.00	28.95
ATOM	903	CA	SER	A	174	33.498	23.880	34.748	1.00	29.13
ATOM	904	C	SER	A	174	33.524	25.348	35.168	1.00	27.92
ATOM	905	O	SER	A	174	33.878	26.255	34.354	1.00	29.51
ATOM	906	CB	SER	A	174	32.130	23.562	34.148	1.00	28.90
ATOM	907	OG	SER	A	174	31.102	23.922	35.054	1.00	30.49
ATOM	908	N	ASN	A	175	33.140	25.593	36.416	1.00	25.45
ATOM	909	CA	ASN	A	175	33.095	26.951	37.011	1.00	23.59
ATOM	910	C	ASN	A	175	31.855	27.767	36.647	1.00	21.71
ATOM	911	O	ASN	A	175	31.828	29.019	36.853	1.00	20.11
ATOM	912	CB	ASN	A	175	34.354	27.754	36.662	1.00	27.01
ATOM	913	CG	ASN	A	175	34.548	28.950	37.582	1.00	29.09
ATOM	914	OD1	ASN	A	175	34.648	28.794	38.840	1.00	30.19
ATOM	915	ND2	ASN	A	175	34.600	30.144	37.004	1.00	30.01
ATOM	916	N	TRP	A	176	30.841	27.121	36.078	1.00	16.70
ATOM	917	CA	TRP	A	176	29.590	27.847	35.790	1.00	18.41
ATOM	918	C	TRP	A	176	28.482	27.170	36.580	1.00	17.87
ATOM	919	O	TRP	A	176	28.534	25.927	36.838	1.00	15.45
ATOM	920	CB	TRP	A	176	29.248	27.888	34.292	1.00	16.48
ATOM	921	CG	TRP	A	176	29.257	26.588	33.563	1.00	17.63
ATOM	922	CD1	TRP	A	176	30.291	26.063	32.842	1.00	17.33
ATOM	923	CDD2	TRP	A	176	28.165	25.668	33.425	1.00	17.78
ATOM	924	NE1	TRP	A	176	29.911	24.881	32.258	1.00	16.01
ATOM	925	CE2	TRP	A	176	28.612	24.613	32.599	1.00	16.95
ATOM	926	CE3	TRP	A	176	26.852	25.635	33.918	1.00	18.29

FIG. 10

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ATOM	927	CZ2	TRP A	176	27.794	23.532	32.252	1.00	17.40
ATOM	928	CZ3	TRP A	176	26.034	24.557	33.573	1.00	19.02
ATOM	929	CH2	TRP A	176	26.512	23.521	32.747	1.00	19.06
ATOM	930	N	GLU A	177	27.496	27.950	37.005	1.00	18.68
ATOM	931	CA	GLU A	177	26.387	27.385	37.797	1.00	21.01
ATOM	932	C	GLU A	177	25.024	27.700	37.224	1.00	20.81
ATOM	933	O	GLU A	177	23.977	27.582	37.938	1.00	21.08
ATOM	934	CB	GLU A	177	26.461	27.869	39.250	1.00	22.84
ATOM	935	CG	GLU A	177	26.865	29.322	39.443	1.00	26.63
ATOM	936	CD	GLU A	177	28.377	29.531	39.446	1.00	27.90
ATOM	937	OE1	GLU A	177	29.121	28.568	39.726	1.00	28.44
ATOM	938	OE2	GLU A	177	28.818	30.670	39.186	1.00	28.24
ATOM	939	N	GLY A	178	25.007	28.088	35.953	1.00	18.48
ATOM	940	CA	GLY A	178	23.759	28.411	35.295	1.00	16.82
ATOM	941	C	GLY A	178	23.929	28.406	33.791	1.00	15.90
ATOM	942	O	GLY A	178	25.070	28.248	33.264	1.00	15.75
ATOM	943	N	ILE A	179	22.831	28.589	33.076	1.00	14.53
ATOM	944	CA	ILE A	179	22.882	28.588	31.610	1.00	14.26
ATOM	945	C	ILE A	179	22.007	29.701	31.057	1.00	14.53
ATOM	946	O	ILE A	179	20.896	29.980	31.603	1.00	15.23
ATOM	947	CB	ILE A	179	22.428	27.217	31.069	1.00	14.45
ATOM	948	CG1	ILE A	179	22.535	27.183	29.548	1.00	14.28
ATOM	949	CG2	ILE A	179	21.002	26.921	31.525	1.00	13.41
ATOM	950	CD1	ILE A	179	22.359	25.788	28.974	1.00	13.85
ATOM	951	N	LEU A	180	22.489	30.350	29.998	1.00	14.91
ATOM	952	CA	LEU A	180	21.763	31.464	29.353	1.00	14.24
ATOM	953	C	LEU A	180	21.311	31.050	27.961	1.00	15.19
ATOM	954	O	LEU A	180	22.117	31.115	26.973	1.00	15.79
ATOM	955	CB	LEU A	180	22.675	32.690	29.223	1.00	14.83
ATOM	956	CG	LEU A	180	22.078	34.107	29.257	1.00	16.59
ATOM	957	CD1	LEU A	180	22.902	34.996	28.351	1.00	15.04
ATOM	958	CD2	LEU A	180	20.622	34.120	28.818	1.00	17.08
ATOM	959	N	GLY A	181	20.057	30.621	27.851	1.00	15.40
ATOM	960	CA	GLY A	181	19.525	30.227	26.561	1.00	13.68
ATOM	961	C	GLY A	181	19.276	31.481	25.741	1.00	15.03
ATOM	962	O	GLY A	181	18.402	32.330	26.107	1.00	14.58
ATOM	963	N	LEU A	182	20.002	31.629	24.638	1.00	12.84
ATOM	964	CA	LEU A	182	19.859	32.831	23.787	1.00	13.53
ATOM	965	C	LEU A	182	19.029	32.646	22.521	1.00	14.25
ATOM	966	O	LEU A	182	18.883	33.607	21.701	1.00	13.52
ATOM	967	CB	LEU A	182	21.250	33.352	23.418	1.00	13.44
ATOM	968	CG	LEU A	182	22.036	33.949	24.583	1.00	11.84
ATOM	969	CD1	LEU A	182	23.506	34.067	24.211	1.00	11.17
ATOM	970	CD2	LEU A	182	21.450	35.311	24.936	1.00	12.14
ATOM	971	N	ALA A	183	18.491	31.449	22.322	1.00	15.12
ATOM	972	CA	ALA A	183	17.660	31.183	21.131	1.00	15.16
ATOM	973	C	ALA A	183	16.276	31.788	21.361	1.00	17.66
ATOM	974	O	ALA A	183	16.053	32.526	22.377	1.00	16.26
ATOM	975	CB	ALA A	183	17.557	29.684	20.875	1.00	14.23
ATOM	976	N	TYR A	184	15.338	31.487	20.466	1.00	18.41
ATOM	977	CA	TYR A	184	13.976	32.060	20.550	1.00	17.40
ATOM	978	C	TYR A	184	12.953	31.334	21.424	1.00	18.41
ATOM	979	O	TYR A	184	13.131	30.135	21.807	1.00	14.95
ATOM	980	CB	TYR A	184	13.411	32.237	19.138	1.00	18.07
ATOM	981	CG	TYR A	184	14.327	33.017	18.216	1.00	19.50
ATOM	982	CD1	TYR A	184	15.295	32.367	17.446	1.00	19.23
ATOM	983	CD2	TYR A	184	14.233	34.408	18.119	1.00	19.65
ATOM	984	CE1	TYR A	184	16.144	33.083	16.599	1.00	19.22
ATOM	985	CE2	TYR A	184	15.079	35.134	17.279	1.00	19.50
ATOM	986	CZ	TYR A	184	16.027	34.466	16.521	1.00	19.86
ATOM	987	OH	TYR A	184	16.842	35.185	15.670	1.00	20.69
ATOM	988	N	ALA A	185	11.873	32.046	21.734	1.00	16.29

FIG. 1P

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ATOM	989	CA	ALA A	185	10.784	31.519	22.592	1.00	17.90
ATOM	990	C	ALA A	185	10.185	30.221	22.068	1.00	17.38
ATOM	991	O	ALA A	185	9.682	29.372	22.869	1.00	15.41
ATOM	992	CB	ALA A	185	9.690	32.579	22.742	1.00	15.99
ATOM	993	N	GLU A	186	10.232	30.046	20.751	1.00	20.56
ATOM	994	CA	GLU A	186	9.679	28.846	20.086	1.00	23.43
ATOM	995	C	GLU A	186	10.169	27.533	20.690	1.00	23.87
ATOM	996	O	GLU A	186	9.448	26.486	20.619	1.00	24.67
ATOM	997	CB	GLU A	186	10.009	28.887	18.591	1.00	27.60
ATOM	998	CG	GLU A	186	9.447	27.729	17.786	1.00	32.42
ATOM	999	CD	GLU A	186	7.941	27.593	17.923	1.00	36.08
ATOM	1000	OE1	GLU A	186	7.255	28.633	18.041	1.00	39.03
ATOM	1001	OE2	GLU A	186	7.439	26.448	17.900	1.00	37.05
ATOM	1002	N	ILE A	187	11.363	27.540	21.283	1.00	22.31
ATOM	1003	CA	ILE A	187	11.904	26.302	21.900	1.00	19.35
ATOM	1004	C	ILE A	187	12.113	26.441	23.403	1.00	20.13
ATOM	1005	O	ILE A	187	12.887	25.654	24.034	1.00	19.35
ATOM	1006	CB	ILE A	187	13.241	25.872	21.248	1.00	19.03
ATOM	1007	CG1	ILE A	187	14.270	26.998	21.355	1.00	18.36
ATOM	1008	CG2	ILE A	187	13.008	25.488	19.795	1.00	19.03
ATOM	1009	CD1	ILE A	187	15.627	26.635	20.780	1.00	17.45
ATOM	1010	N	ALA A	188	11.441	27.416	23.999	1.00	19.82
ATOM	1011	CA	ALA A	188	11.551	27.636	25.454	1.00	20.35
ATOM	1012	C	ALA A	188	10.622	26.661	26.171	1.00	19.60
ATOM	1013	O	ALA A	188	9.554	26.277	25.618	1.00	19.52
ATOM	1014	CB	ALA A	188	11.160	29.083	25.793	1.00	17.16
ATOM	1015	N	ARG A	189	11.004	26.231	27.372	1.00	20.77
ATOM	1016	CA	ARG A	189	10.142	25.324	28.164	1.00	21.43
ATOM	1017	C	ARG A	189	9.577	26.162	29.303	1.00	22.80
ATOM	1018	O	ARG A	189	10.274	27.099	29.817	1.00	23.68
ATOM	1019	CB	ARG A	189	10.949	24.151	28.753	1.00	22.36
ATOM	1020	CG	ARG A	189	11.689	23.285	27.729	1.00	23.90
ATOM	1021	CD	ARG A	189	10.765	22.818	26.624	1.00	24.33
ATOM	1022	NE	ARG A	189	11.419	21.914	25.681	1.00	25.35
ATOM	1023	CZ	ARG A	189	11.336	20.586	25.724	1.00	27.35
ATOM	1024	NH1	ARG A	189	10.620	19.991	26.673	1.00	24.73
ATOM	1025	NH2	ARG A	189	11.959	19.849	24.807	1.00	25.42
ATOM	1026	N	PRO A	190	8.325	25.890	29.725	1.00	23.27
ATOM	1027	CA	PRO A	190	7.442	24.830	29.216	1.00	23.21
ATOM	1028	C	PRO A	190	6.826	25.110	27.849	1.00	23.72
ATOM	1029	O	PRO A	190	6.458	24.157	27.101	1.00	23.77
ATOM	1030	CB	PRO A	190	6.377	24.713	30.305	1.00	22.63
ATOM	1031	CG	PRO A	190	6.285	26.115	30.830	1.00	24.33
ATOM	1032	CD	PRO A	190	7.745	26.527	30.921	1.00	22.73
ATOM	1033	N	ASP A	191	6.681	26.383	27.508	1.00	25.20
ATOM	1034	CA	ASP A	191	6.107	26.754	26.202	1.00	25.89
ATOM	1035	C	ASP A	191	6.653	28.106	25.770	1.00	25.76
ATOM	1036	O	ASP A	191	7.488	28.716	26.498	1.00	24.40
ATOM	1037	CB	ASP A	191	4.569	26.757	26.269	1.00	28.36
ATOM	1038	CG	ASP A	191	4.024	27.697	27.323	1.00	30.16
ATOM	1039	OD1	ASP A	191	2.887	27.468	27.783	1.00	33.88
ATOM	1040	OD2	ASP A	191	4.714	28.669	27.686	1.00	30.53
ATOM	1041	N	ASP A	192	6.214	28.596	24.617	1.00	26.01
ATOM	1042	CA	ASP A	192	6.724	29.877	24.088	1.00	26.22
ATOM	1043	C	ASP A	192	6.236	31.123	24.813	1.00	26.52
ATOM	1044	O	ASP A	192	6.567	32.275	24.395	1.00	26.27
ATOM	1045	CB	ASP A	192	6.419	29.985	22.589	1.00	27.69
ATOM	1046	CG	ASP A	192	4.940	30.161	22.296	1.00	29.61
ATOM	1047	OD1	ASP A	192	4.102	29.647	23.066	1.00	31.87
ATOM	1048	OD2	ASP A	192	4.618	30.805	21.279	1.00	30.31
ATOM	1049	N	SER A	193	5.470	30.947	25.885	1.00	24.46
ATOM	1050	CA	SER A	193	4.988	32.117	26.645	1.00	24.21

FIG. 1Q

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ATOM	1051	C	SER A	193	6.078	32.565	27.614	1.00	22.68
ATOM	1052	O	SER A	193	6.082	33.740	28.082	1.00	22.41
ATOM	1053	CB	SER A	193	3.701	31.787	27.415	1.00	25.67
ATOM	1054	OG	SER A	193	3.910	30.774	28.386	1.00	27.13
ATOM	1055	N	LEU A	194	7.009	31.670	27.932	1.00	20.84
ATOM	1056	CA	LEU A	194	8.107	32.044	28.852	1.00	18.87
ATOM	1057	C	LEU A	194	9.149	32.830	28.065	1.00	18.82
ATOM	1058	O	LEU A	194	10.066	32.240	27.419	1.00	19.19
ATOM	1059	CB	LEU A	194	8.758	30.809	29.469	1.00	17.48
ATOM	1060	CG	LEU A	194	9.680	31.201	30.631	1.00	19.18
ATOM	1061	CD1	LEU A	194	8.825	31.633	31.825	1.00	16.80
ATOM	1062	CD2	LEU A	194	10.585	30.044	31.014	1.00	16.32
ATOM	1063	N	GLU A	195	9.025	34.150	28.095	1.00	18.44
ATOM	1064	CA	GLU A	195	9.949	35.029	27.369	1.00	18.80
ATOM	1065	C	GLU A	195	11.415	34.777	27.733	1.00	19.02
ATOM	1066	O	GLU A	195	11.791	34.754	28.953	1.00	17.72
ATOM	1067	CB	GLU A	195	9.575	36.485	27.644	1.00	20.83
ATOM	1068	CG	GLU A	195	10.514	37.512	27.047	1.00	23.03
ATOM	1069	CD	GLU A	195	9.989	38.926	27.204	1.00	24.10
ATOM	1070	OE1	GLU A	195	9.211	39.373	26.337	1.00	25.77
ATOM	1071	OE2	GLU A	195	10.343	39.585	28.203	1.00	24.06
ATOM	1072	N	PRO A	196	12.272	34.559	26.714	1.00	18.43
ATOM	1073	CA	PRO A	196	13.702	34.311	26.935	1.00	18.17
ATOM	1074	C	PRO A	196	14.385	35.571	27.447	1.00	16.90
ATOM	1075	O	PRO A	196	13.845	36.715	27.297	1.00	17.67
ATOM	1076	CB	PRO A	196	14.210	33.914	25.546	1.00	17.79
ATOM	1077	CG	PRO A	196	12.992	33.305	24.892	1.00	19.11
ATOM	1078	CD	PRO A	196	11.911	34.287	25.310	1.00	18.58
ATOM	1079	N	PHE A	197	15.558	35.405	28.039	1.00	15.80
ATOM	1080	CA	PHE A	197	16.290	36.550	28.574	1.00	14.47
ATOM	1081	C	PHE A	197	16.597	37.663	27.576	1.00	16.31
ATOM	1082	O	PHE A	197	16.392	38.873	27.894	1.00	14.87
ATOM	1083	CB	PHE A	197	17.595	36.093	29.217	1.00	12.99
ATOM	1084	CG	PHE A	197	18.472	37.227	29.652	1.00	13.09
ATOM	1085	CD1	PHE A	197	19.376	37.806	28.767	1.00	12.33
ATOM	1086	CD2	PHE A	197	18.347	37.766	30.926	1.00	14.29
ATOM	1087	CE1	PHE A	197	20.139	38.907	29.143	1.00	12.22
ATOM	1088	CE2	PHE A	197	19.108	38.873	31.310	1.00	14.64
ATOM	1089	CZ	PHE A	197	20.002	39.441	30.415	1.00	13.26
ATOM	1090	N	PHE A	198	17.089	37.319	26.390	1.00	16.71
ATOM	1091	CA	PHE A	198	17.427	38.384	25.431	1.00	17.60
ATOM	1092	C	PHE A	198	16.212	39.192	25.001	1.00	17.52
ATOM	1093	O	PHE A	198	16.317	40.434	24.774	1.00	16.03
ATOM	1094	CB	PHE A	198	18.133	37.829	24.196	1.00	17.77
ATOM	1095	CG	PHE A	198	19.051	38.826	23.549	1.00	17.92
ATOM	1096	CD1	PHE A	198	20.310	39.075	24.087	1.00	18.66
ATOM	1097	CD2	PHE A	198	18.633	39.569	22.455	1.00	16.90
ATOM	1098	CE1	PHE A	198	21.139	40.053	23.546	1.00	18.55
ATOM	1099	CE2	PHE A	198	19.454	40.551	21.904	1.00	17.96
ATOM	1100	CZ	PHE A	198	20.708	40.795	22.451	1.00	18.52
ATOM	1101	N	ASP A	199	15.066	38.530	24.879	1.00	17.52
ATOM	1102	CA	ASP A	199	13.819	39.225	24.491	1.00	19.54
ATOM	1103	C	ASP A	199	13.464	40.261	25.561	1.00	18.83
ATOM	1104	O	ASP A	199	13.134	41.444	25.233	1.00	20.48
ATOM	1105	CB	ASP A	199	12.685	38.210	24.338	1.00	21.95
ATOM	1106	CG	ASP A	199	12.868	37.312	23.126	1.00	24.77
ATOM	1107	OD1	ASP A	199	12.408	37.687	22.028	1.00	27.27
ATOM	1108	OD2	ASP A	199	13.481	36.234	23.261	1.00	27.11
ATOM	1109	N	SER A	200	13.530	39.858	26.829	1.00	17.89
ATOM	1110	CA	SER A	200	13.223	40.784	27.947	1.00	16.17
ATOM	1111	C	SER A	200	14.211	41.943	27.915	1.00	16.77
ATOM	1112	O	SER A	200	13.823	43.140	28.072	1.00	17.20

FIG. 1R

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ATOM	1113	CB	SER A	200	13.336	40.062	29.292	1.00	14.55
ATOM	1114	OG	SER A	200	12.386	39.017	29.400	1.00	14.16
ATOM	1115	N	LEU A	201	15.481	41.617	27.711	1.00	16.47
ATOM	1116	CA	LEU A	201	16.553	42.638	27.654	1.00	18.93
ATOM	1117	C	LEU A	201	16.237	43.684	26.586	1.00	18.88
ATOM	1118	O	LEU A	201	16.274	44.917	26.852	1.00	18.26
ATOM	1119	CB	LEU A	201	17.884	41.953	27.337	1.00	18.68
ATOM	1120	CG	LEU A	201	19.244	42.637	27.523	1.00	20.59
ATOM	1121	CD1	LEU A	201	19.973	42.616	26.194	1.00	20.98
ATOM	1122	CD2	LEU A	201	19.100	44.053	28.045	1.00	20.13
ATOM	1123	N	VAL A	202	15.919	43.222	25.383	1.00	20.38
ATOM	1124	CA	VAL A	202	15.600	44.130	24.264	1.00	20.23
ATOM	1125	C	VAL A	202	14.335	44.938	24.532	1.00	23.13
ATOM	1126	O	VAL A	202	14.284	46.175	24.255	1.00	23.36
ATOM	1127	CB	VAL A	202	15.433	43.337	22.948	1.00	19.84
ATOM	1128	CG1	VAL A	202	14.830	44.228	21.855	1.00	17.60
ATOM	1129	CG2	VAL A	202	16.792	42.804	22.502	1.00	16.36
ATOM	1130	N	LYS A	203	13.315	44.285	25.074	1.00	24.15
ATOM	1131	CA	LYS A	203	12.050	44.985	25.360	1.00	27.77
ATOM	1132	C	LYS A	203	12.178	46.049	26.452	1.00	27.47
ATOM	1133	O	LYS A	203	11.753	47.223	26.252	1.00	26.63
ATOM	1134	CB	LYS A	203	10.970	43.973	25.746	1.00	29.55
ATOM	1135	CG	LYS A	203	9.609	44.594	26.008	1.00	34.08
ATOM	1136	CD	LYS A	203	8.497	43.798	25.335	1.00	36.82
ATOM	1137	CE	LYS A	203	8.504	42.342	25.774	1.00	38.97
ATOM	1138	NZ	LYS A	203	7.512	41.533	25.012	1.00	40.86
ATOM	1139	N	GLN A	204	12.771	45.687	27.585	1.00	26.46
ATOM	1140	CA	GLN A	204	12.910	46.632	28.721	1.00	26.94
ATOM	1141	C	GLN A	204	14.125	47.542	28.614	1.00	28.51
ATOM	1142	O	GLN A	204	14.479	48.264	29.600	1.00	30.36
ATOM	1143	CB	GLN A	204	13.007	45.848	30.032	1.00	24.17
ATOM	1144	CG	GLN A	204	11.980	44.739	30.170	1.00	20.78
ATOM	1145	CD	GLN A	204	12.270	43.821	31.342	1.00	20.14
ATOM	1146	OE1	GLN A	204	11.725	42.676	31.420	1.00	19.72
ATOM	1147	NE2	GLN A	204	13.107	44.279	32.265	1.00	16.56
ATOM	1148	N	THR A	205	14.762	47.568	27.453	1.00	28.58
ATOM	1149	CA	THR A	205	15.979	48.375	27.306	1.00	29.06
ATOM	1150	C	THR A	205	16.186	48.905	25.885	1.00	30.58
ATOM	1151	O	THR A	205	15.427	48.525	24.940	1.00	30.23
ATOM	1152	CB	THR A	205	17.175	47.501	27.772	1.00	29.85
ATOM	1153	OG1	THR A	205	17.572	47.899	29.088	1.00	29.62
ATOM	1154	CG2	THR A	205	18.328	47.576	26.823	1.00	29.03
ATOM	1155	N	HIS A	206	17.175	49.784	25.711	1.00	31.92
ATOM	1156	CA	HIS A	206	17.488	50.350	24.372	1.00	33.38
ATOM	1157	C	HIS A	206	18.548	49.530	23.637	1.00	32.31
ATOM	1158	O	HIS A	206	18.905	49.845	22.460	1.00	31.08
ATOM	1159	CB	HIS A	206	17.975	51.799	24.487	1.00	36.39
ATOM	1160	CG	HIS A	206	16.898	52.773	24.848	1.00	39.92
ATOM	1161	ND1	HIS A	206	15.696	52.836	24.177	1.00	40.95
ATOM	1162	CD2	HIS A	206	16.849	53.736	25.800	1.00	40.35
ATOM	1163	CE1	HIS A	206	14.951	53.794	24.699	1.00	41.58
ATOM	1164	NE2	HIS A	206	15.627	54.356	25.685	1.00	41.65
ATOM	1165	N	VAL A	207	19.075	48.501	24.291	1.00	29.55
ATOM	1166	CA	VAL A	207	20.097	47.639	23.651	1.00	28.49
ATOM	1167	C	VAL A	207	19.511	47.083	22.354	1.00	26.27
ATOM	1168	O	VAL A	207	18.415	46.441	22.358	1.00	26.26
ATOM	1169	CB	VAL A	207	20.498	46.462	24.572	1.00	28.77
ATOM	1170	CG1	VAL A	207	21.399	45.491	23.825	1.00	29.45
ATOM	1171	CG2	VAL A	207	21.219	46.987	25.805	1.00	28.52
ATOM	1172	N	PRO A	208	20.192	47.311	21.220	1.00	24.42
ATOM	1173	CA	PRO A	208	19.683	46.804	19.944	1.00	23.82
ATOM	1174	C	PRO A	208	19.547	45.284	19.914	1.00	22.81

FIG. 1S

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ATOM	1175	O	PRO A	208	20.290	44.545	20.630	1.00	21.12
ATOM	1176	CB	PRO A	208	20.689	47.343	18.926	1.00	24.65
ATOM	1177	CG	PRO A	208	21.927	47.510	19.711	1.00	25.77
ATOM	1178	CD	PRO A	208	21.441	48.062	21.025	1.00	24.39
ATOM	1179	N	ASN A	209	18.605	44.806	19.109	1.00	21.59
ATOM	1180	CA	ASN A	209	18.322	43.362	18.995	1.00	20.43
ATOM	1181	C	ASN A	209	19.390	42.599	18.222	1.00	20.52
ATOM	1182	O	ASN A	209	19.190	42.217	17.026	1.00	21.39
ATOM	1183	CB	ASN A	209	16.957	43.159	18.340	1.00	18.52
ATOM	1184	CG	ASN A	209	16.501	41.728	18.402	1.00	18.12
ATOM	1185	OD1	ASN A	209	16.968	40.948	19.281	1.00	18.32
ATOM	1186	ND2	ASN A	209	15.594	41.348	17.513	1.00	15.63
ATOM	1187	N	LEU A	210	20.514	42.346	18.883	1.00	19.53
ATOM	1188	CA	LEU A	210	21.631	41.634	18.243	1.00	19.83
ATOM	1189	C	LEU A	210	22.765	41.421	19.226	1.00	19.02
ATOM	1190	O	LEU A	210	22.958	42.238	20.176	1.00	18.52
ATOM	1191	CB	LEU A	210	22.120	42.451	17.035	1.00	21.93
ATOM	1192	CG	LEU A	210	23.534	42.305	16.456	1.00	22.75
ATOM	1193	CD1	LEU A	210	23.612	43.009	15.102	1.00	23.20
ATOM	1194	CD2	LEU A	210	24.548	42.910	17.409	1.00	24.60
ATOM	1195	N	PHE A	211	23.509	40.334	19.044	1.00	16.48
ATOM	1196	CA	PHE A	211	24.671	40.055	19.909	1.00	16.70
ATOM	1197	C	PHE A	211	25.722	39.310	19.095	1.00	16.08
ATOM	1198	O	PHE A	211	25.392	38.653	18.063	1.00	17.22
ATOM	1199	CB	PHE A	211	24.251	39.280	21.173	1.00	14.67
ATOM	1200	CG	PHE A	211	23.813	37.863	20.924	1.00	16.01
ATOM	1201	CD1	PHE A	211	24.748	36.837	20.835	1.00	14.91
ATOM	1202	CD2	PHE A	211	22.465	37.546	20.824	1.00	14.62
ATOM	1203	CE1	PHE A	211	24.344	35.515	20.653	1.00	15.05
ATOM	1204	CE2	PHE A	211	22.054	36.224	20.641	1.00	15.47
ATOM	1205	CZ	PHE A	211	22.996	35.207	20.558	1.00	12.73
ATOM	1206	N	SER A	212	26.977	39.424	19.520	1.00	17.19
ATOM	1207	CA	SER A	212	28.126	38.803	18.818	1.00	16.98
ATOM	1208	C	SER A	212	28.894	37.862	19.725	1.00	16.10
ATOM	1209	O	SER A	212	29.036	38.122	20.955	1.00	14.22
ATOM	1210	CB	SER A	212	29.094	39.888	18.349	1.00	16.89
ATOM	1211	OG	SER A	212	28.431	40.869	17.593	1.00	26.70
ATOM	1212	N	LEU A	213	29.430	36.797	19.144	1.00	14.76
ATOM	1213	CA	LEU A	213	30.194	35.819	19.930	1.00	14.81
ATOM	1214	C	LEU A	213	31.563	35.509	19.352	1.00	14.32
ATOM	1215	O	LEU A	213	31.702	35.162	18.137	1.00	12.74
ATOM	1216	CB	LEU A	213	29.394	34.522	20.060	1.00	15.67
ATOM	1217	CG	LEU A	213	28.735	34.210	21.408	1.00	18.95
ATOM	1218	CD1	LEU A	213	28.196	35.475	22.050	1.00	18.65
ATOM	1219	CD2	LEU A	213	27.627	33.185	21.192	1.00	16.46
ATOM	1220	N	GLN A	214	32.581	35.656	20.191	1.00	14.19
ATOM	1221	CA	GLN A	214	33.954	35.324	19.797	1.00	15.89
ATOM	1222	C	GLN A	214	34.407	34.258	20.778	1.00	15.04
ATOM	1223	O	GLN A	214	34.848	34.582	21.917	1.00	16.01
ATOM	1224	CB	GLN A	214	34.903	36.523	19.914	1.00	17.92
ATOM	1225	CG	GLN A	214	36.290	36.231	19.341	1.00	20.63
ATOM	1226	CD	GLN A	214	37.397	37.099	19.932	1.00	23.22
ATOM	1227	OE1	GLN A	214	38.459	37.332	19.273	1.00	24.79
ATOM	1228	NE2	GLN A	214	37.199	37.571	21.156	1.00	24.53
ATOM	1229	N	LEU A	215	34.284	32.997	20.390	1.00	14.37
ATOM	1230	CA	LEU A	215	34.729	31.890	21.262	1.00	13.74
ATOM	1231	C	LEU A	215	36.193	31.625	20.925	1.00	14.40
ATOM	1232	O	LEU A	215	36.541	31.357	19.737	1.00	14.39
ATOM	1233	CB	LEU A	215	33.872	30.644	21.005	1.00	13.94
ATOM	1234	CG	LEU A	215	32.636	30.429	21.893	1.00	14.78
ATOM	1235	CD1	LEU A	215	31.900	31.734	22.143	1.00	13.31
ATOM	1236	CD2	LEU A	215	31.723	29.407	21.240	1.00	12.97

FIG. 1T

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ATOM	1237	N	CYS	A	216	37.066	31.706	21.922	1.00	14.83
ATOM	1238	CA	CYS	A	216	38.504	31.486	21.682	1.00	16.37
ATOM	1239	C	CYS	A	216	39.066	30.196	22.263	1.00	17.20
ATOM	1240	O	CYS	A	216	39.174	30.046	23.519	1.00	16.79
ATOM	1241	CB	CYS	A	216	39.314	32.668	22.227	1.00	19.03
ATOM	1242	SG	CYS	A	216	38.852	34.278	21.505	1.00	23.75
ATOM	1243	N	GLY	A	217	39.415	29.257	21.387	1.00	15.43
ATOM	1244	CA	GLY	A	217	40.018	28.021	21.843	1.00	16.40
ATOM	1245	C	GLY	A	217	41.483	28.371	22.064	1.00	17.87
ATOM	1246	O	GLY	A	217	42.057	29.204	21.303	1.00	17.53
ATOM	1247	N	ALA	A	218	42.119	27.785	23.069	1.00	17.79
ATOM	1248	CA	ALA	A	218	43.539	28.108	23.349	1.00	16.33
ATOM	1249	C	ALA	A	218	44.486	27.408	22.379	1.00	17.71
ATOM	1250	O	ALA	A	218	45.602	27.927	22.069	1.00	16.46
ATOM	1251	CB	ALA	A	218	43.884	27.731	24.779	1.00	14.95
ATOM	1252	N	GLY	A	219	44.073	26.245	21.890	1.00	16.19
ATOM	1253	CA	GLY	A	219	44.909	25.505	20.970	1.00	17.57
ATOM	1254	C	GLY	A	219	45.696	24.439	21.703	1.00	17.52
ATOM	1255	O	GLY	A	219	46.490	23.675	21.076	1.00	16.29
ATOM	1256	N	PHE	A	220	45.502	24.375	23.018	1.00	17.13
ATOM	1257	CA	PHE	A	220	46.190	23.381	23.873	1.00	18.29
ATOM	1258	C	PHE	A	220	45.381	23.185	25.153	1.00	19.24
ATOM	1259	O	PHE	A	220	44.477	24.012	25.475	1.00	19.69
ATOM	1260	CB	PHE	A	220	47.616	23.854	24.187	1.00	18.72
ATOM	1261	CG	PHE	A	220	47.689	25.253	24.731	1.00	20.07
ATOM	1262	CD1	PHE	A	220	47.448	25.507	26.077	1.00	20.91
ATOM	1263	CD2	PHE	A	220	47.984	26.320	23.890	1.00	19.91
ATOM	1264	CE1	PHE	A	220	47.505	26.809	26.576	1.00	21.79
ATOM	1265	CE2	PHE	A	220	48.043	27.620	24.374	1.00	20.35
ATOM	1266	CZ	PHE	A	220	47.802	27.866	25.721	1.00	21.77
ATOM	1267	N	PRO	A	221	45.659	22.110	25.907	1.00	20.17
ATOM	1268	CA	PRO	A	221	44.922	21.846	27.147	1.00	21.27
ATOM	1269	C	PRO	A	221	45.014	22.959	28.180	1.00	23.04
ATOM	1270	O	PRO	A	221	46.065	23.666	28.292	1.00	23.99
ATOM	1271	CB	PRO	A	221	45.545	20.543	27.648	1.00	20.22
ATOM	1272	CG	PRO	A	221	45.946	19.855	26.390	1.00	20.63
ATOM	1273	CD	PRO	A	221	46.571	20.994	25.602	1.00	20.45
ATOM	1274	N	LEU	A	222	43.934	23.132	28.933	1.00	25.72
ATOM	1275	CA	LEU	A	222	43.873	24.158	29.991	1.00	28.32
ATOM	1276	C	LEU	A	222	43.425	23.516	31.291	1.00	30.88
ATOM	1277	O	LEU	A	222	42.248	23.042	31.403	1.00	31.71
ATOM	1278	CB	LEU	A	222	42.880	25.261	29.620	1.00	27.52
ATOM	1279	CG	LEU	A	222	43.264	26.233	28.506	1.00	27.30
ATOM	1280	CD1	LEU	A	222	42.040	27.042	28.096	1.00	26.79
ATOM	1281	CD2	LEU	A	222	44.382	27.143	28.983	1.00	27.13
ATOM	1282	N	ASN	A	223	44.320	23.470	32.273	1.00	34.15
ATOM	1283	CA	ASN	A	223	43.959	22.893	33.583	1.00	37.64
ATOM	1284	C	ASN	A	223	43.014	23.882	34.254	1.00	38.54
ATOM	1285	O	ASN	A	223	42.864	25.056	33.785	1.00	36.72
ATOM	1286	CB	ASN	A	223	45.204	22.663	34.457	1.00	38.54
ATOM	1287	CG	ASN	A	223	45.905	23.952	34.839	1.00	39.09
ATOM	1288	OD1	ASN	A	223	45.268	24.903	35.375	1.00	41.39
ATOM	1289	ND2	ASN	A	223	47.208	24.013	34.595	1.00	40.09
ATOM	1290	N	GLN	A	224	42.380	23.444	35.335	1.00	41.79
ATOM	1291	CA	GLN	A	224	41.415	24.278	36.073	1.00	43.58
ATOM	1292	C	GLN	A	224	41.898	25.708	36.359	1.00	42.52
ATOM	1293	O	GLN	A	224	41.138	26.705	36.126	1.00	42.75
ATOM	1294	CB	GLN	A	224	41.021	23.572	37.378	1.00	46.22
ATOM	1295	CG	GLN	A	224	39.629	23.956	37.827	1.00	49.86
ATOM	1296	CD	GLN	A	224	39.085	23.160	38.990	1.00	51.40
ATOM	1297	OE1	GLN	A	224	37.923	23.406	39.443	1.00	52.42
ATOM	1298	NE2	GLN	A	224	39.866	22.215	39.496	1.00	52.75

FIG. 1U

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ATOM	1299	N	SER A	225	43.133	25.852	36.831	1.00	40.27
ATOM	1300	CA	SER A	225	43.669	27.200	37.138	1.00	39.30
ATOM	1301	C	SER A	225	43.989	28.028	35.893	1.00	36.57
ATOM	1302	O	SER A	225	43.920	29.292	35.930	1.00	36.27
ATOM	1303	CB	SER A	225	44.917	27.094	38.027	1.00	40.27
ATOM	1304	OG	SER A	225	45.974	26.411	37.376	1.00	42.21
ATOM	1305	N	GLU A	226	44.339	27.364	34.796	1.00	34.29
ATOM	1306	CA	GLU A	226	44.654	28.083	33.542	1.00	32.79
ATOM	1307	C	GLU A	226	43.375	28.651	32.954	1.00	31.17
ATOM	1308	O	GLU A	226	43.354	29.815	32.454	1.00	29.09
ATOM	1309	CB	GLU A	226	45.307	27.144	32.526	1.00	33.69
ATOM	1310	CG	GLU A	226	46.708	26.696	32.902	1.00	36.40
ATOM	1311	CD	GLU A	226	47.251	25.619	31.972	1.00	37.70
ATOM	1312	OE1	GLU A	226	46.585	24.567	31.830	1.00	37.54
ATOM	1313	OE2	GLU A	226	48.340	25.823	31.389	1.00	37.14
ATOM	1314	N	VAL A	227	42.305	27.867	33.007	1.00	29.89
ATOM	1315	CA	VAL A	227	41.013	28.312	32.458	1.00	30.15
ATOM	1316	C	VAL A	227	40.512	29.547	33.203	1.00	29.84
ATOM	1317	O	VAL A	227	39.922	30.484	32.582	1.00	30.30
ATOM	1318	CB	VAL A	227	39.940	27.210	32.558	1.00	30.93
ATOM	1319	CG1	VAL A	227	38.800	27.538	31.637	1.00	32.67
ATOM	1320	CG2	VAL A	227	40.516	25.867	32.183	1.00	32.31
ATOM	1321	N	LEU A	228	40.731	29.581	34.513	1.00	28.88
ATOM	1322	CA	LEU A	228	40.292	30.726	35.336	1.00	27.31
ATOM	1323	C	LEU A	228	41.059	31.992	34.975	1.00	27.59
ATOM	1324	O	LEU A	228	40.491	33.129	35.020	1.00	27.84
ATOM	1325	CB	LEU A	228	40.496	30.420	36.819	1.00	27.50
ATOM	1326	CG	LEU A	228	39.700	29.259	37.419	1.00	29.32
ATOM	1327	CD1	LEU A	228	40.129	29.053	38.867	1.00	28.16
ATOM	1328	CD2	LEU A	228	38.205	29.549	37.339	1.00	28.58
ATOM	1329	N	ALA A	229	42.327	31.835	34.610	1.00	27.12
ATOM	1330	CA	ALA A	229	43.176	32.998	34.257	1.00	27.64
ATOM	1331	C	ALA A	229	43.134	33.347	32.776	1.00	27.65
ATOM	1332	O	ALA A	229	43.460	34.504	32.375	1.00	29.94
ATOM	1333	CB	ALA A	229	44.617	32.736	34.682	1.00	27.52
ATOM	1334	N	SER A	230	42.736	32.393	31.947	1.00	26.68
ATOM	1335	CA	SER A	230	42.692	32.635	30.498	1.00	26.33
ATOM	1336	C	SER A	230	41.438	33.360	30.032	1.00	26.22
ATOM	1337	O	SER A	230	40.356	33.302	30.695	1.00	25.70
ATOM	1338	CB	SER A	230	42.815	31.310	29.746	1.00	26.07
ATOM	1339	OG	SER A	230	42.759	31.519	28.344	1.00	26.54
ATOM	1340	N	VAL A	231	41.562	34.056	28.909	1.00	25.03
ATOM	1341	CA	VAL A	231	40.415	34.764	28.320	1.00	24.89
ATOM	1342	C	VAL A	231	39.785	33.776	27.346	1.00	24.75
ATOM	1343	O	VAL A	231	40.453	33.310	26.371	1.00	25.97
ATOM	1344	CB	VAL A	231	40.859	36.043	27.568	1.00	24.38
ATOM	1345	CG1	VAL A	231	39.729	36.554	26.678	1.00	22.98
ATOM	1346	CG2	VAL A	231	41.244	37.119	28.577	1.00	23.20
ATOM	1347	N	GLY A	232	38.526	33.433	27.588	1.00	23.26
ATOM	1348	CA	GLY A	232	37.846	32.481	26.729	1.00	22.77
ATOM	1349	C	GLY A	232	37.125	33.081	25.538	1.00	21.57
ATOM	1350	O	GLY A	232	36.590	32.324	24.666	1.00	20.69
ATOM	1351	N	GLY A	233	37.078	34.408	25.468	1.00	19.21
ATOM	1352	CA	GLY A	233	36.410	35.050	24.353	1.00	17.96
ATOM	1353	C	GLY A	233	35.599	36.275	24.731	1.00	18.25
ATOM	1354	O	GLY A	233	35.778	36.866	25.851	1.00	15.19
ATOM	1355	N	SER A	234	34.708	36.677	23.828	1.00	16.58
ATOM	1356	CA	SER A	234	33.864	37.864	24.053	1.00	16.83
ATOM	1357	C	SER A	234	32.423	37.667	23.599	1.00	17.82
ATOM	1358	O	SER A	234	32.134	36.995	22.552	1.00	17.90
ATOM	1359	CB	SER A	234	34.426	39.072	23.291	1.00	16.36
ATOM	1360	OG	SER A	234	35.816	39.253	23.508	1.00	18.23

FIG. 1V

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ATOM	1361	N	MET A	235	31.506	38.227	24.372	1.00	18.00
ATOM	1362	CA	MET A	235	30.091	38.201	24.010	1.00	17.58
ATOM	1363	C	MET A	235	29.732	39.677	23.996	1.00	18.27
ATOM	1364	O	MET A	235	29.594	40.322	25.087	1.00	19.03
ATOM	1365	CB	MET A	235	29.232	37.475	25.046	1.00	16.91
ATOM	1366	CG	MET A	235	27.759	37.455	24.634	1.00	17.60
ATOM	1367	SD	MET A	235	26.597	36.751	25.819	1.00	20.56
ATOM	1368	CE	MET A	235	25.105	36.803	24.857	1.00	21.69
ATOM	1369	N	ILE A	236	29.629	40.248	22.801	1.00	19.70
ATOM	1370	CA	ILE A	236	29.271	41.669	22.674	1.00	19.40
ATOM	1371	C	ILE A	236	27.764	41.758	22.522	1.00	20.06
ATOM	1372	O	ILE A	236	27.175	41.365	21.467	1.00	16.87
ATOM	1373	CB	ILE A	236	29.985	42.341	21.470	1.00	21.41
ATOM	1374	CG1	ILE A	236	31.452	42.625	21.821	1.00	22.57
ATOM	1375	CG2	ILE A	236	29.329	43.672	21.149	1.00	21.72
ATOM	1376	CD1	ILE A	236	32.243	41.426	22.228	1.00	25.65
ATOM	1377	N	ILE A	237	27.122	42.246	23.575	1.00	20.16
ATOM	1378	CA	ILE A	237	25.663	42.382	23.599	1.00	21.01
ATOM	1379	C	ILE A	237	25.215	43.710	22.996	1.00	22.16
ATOM	1380	O	ILE A	237	25.620	44.812	23.472	1.00	22.96
ATOM	1381	CB	ILE A	237	25.153	42.241	25.050	1.00	21.36
ATOM	1382	CG1	ILE A	237	25.346	40.791	25.498	1.00	22.29
ATOM	1383	CG2	ILE A	237	23.694	42.660	25.156	1.00	20.45
ATOM	1384	CD1	ILE A	237	25.002	40.529	26.939	1.00	24.84
ATOM	1385	N	GLY A	238	24.404	43.626	21.946	1.00	23.30
ATOM	1386	CA	GLY A	238	23.903	44.820	21.288	1.00	25.11
ATOM	1387	C	GLY A	238	24.821	45.437	20.244	1.00	26.35
ATOM	1388	O	GLY A	238	24.644	46.640	19.874	1.00	27.08
ATOM	1389	N	GLY A	239	25.792	44.681	19.743	1.00	25.50
ATOM	1390	CA	GLY A	239	26.679	45.251	18.747	1.00	24.81
ATOM	1391	C	GLY A	239	27.807	44.371	18.242	1.00	26.38
ATOM	1392	O	GLY A	239	27.942	43.167	18.632	1.00	23.61
ATOM	1393	N	ILE A	240	28.632	44.960	17.383	1.00	26.33
ATOM	1394	CA	ILE A	240	29.780	44.273	16.758	1.00	25.87
ATOM	1395	C	ILE A	240	31.067	45.033	17.055	1.00	26.95
ATOM	1396	O	ILE A	240	31.121	46.287	16.882	1.00	28.86
ATOM	1397	CB	ILE A	240	29.607	44.226	15.226	1.00	25.88
ATOM	1398	CG1	ILE A	240	28.298	43.519	14.871	1.00	25.12
ATOM	1399	CG2	ILE A	240	30.806	43.541	14.581	1.00	26.56
ATOM	1400	CD1	ILE A	240	27.939	43.599	13.396	1.00	24.59
ATOM	1401	N	ASP A	241	32.100	44.323	17.498	1.00	25.24
ATOM	1402	CA	ASP A	241	33.395	44.973	17.781	1.00	25.13
ATOM	1403	C	ASP A	241	34.383	44.548	16.698	1.00	26.31
ATOM	1404	O	ASP A	241	34.676	43.326	16.536	1.00	26.89
ATOM	1405	CB	ASP A	241	33.922	44.561	19.153	1.00	24.85
ATOM	1406	CG	ASP A	241	35.171	45.325	19.541	1.00	24.81
ATOM	1407	OD1	ASP A	241	35.144	46.032	20.567	1.00	27.86
ATOM	1408	OD2	ASP A	241	36.180	45.226	18.817	1.00	25.69
ATOM	1409	N	HIS A	242	34.913	45.517	15.960	1.00	26.86
ATOM	1410	CA	HIS A	242	35.853	45.222	14.852	1.00	27.45
ATOM	1411	C	HIS A	242	37.197	44.613	15.221	1.00	25.41
ATOM	1412	O	HIS A	242	37.871	43.998	14.347	1.00	23.94
ATOM	1413	CB	HIS A	242	36.085	46.481	14.013	1.00	32.38
ATOM	1414	CG	HIS A	242	34.858	46.957	13.304	1.00	37.46
ATOM	1415	ND1	HIS A	242	33.822	47.591	13.956	1.00	39.65
ATOM	1416	CD2	HIS A	242	34.472	46.837	12.011	1.00	39.29
ATOM	1417	CE1	HIS A	242	32.850	47.840	13.096	1.00	40.56
ATOM	1418	NE2	HIS A	242	33.219	47.392	11.909	1.00	40.36
ATOM	1419	N	SER A	243	37.615	44.751	16.471	1.00	22.23
ATOM	1420	CA	SER A	243	38.915	44.184	16.877	1.00	22.06
ATOM	1421	C	SER A	243	38.843	42.667	17.011	1.00	20.51
ATOM	1422	O	SER A	243	39.897	41.986	17.130	1.00	23.23

FIG. 1W

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ATOM	1423	CB	SER A	243	39.368	44.785	18.211	1.00	22.47
ATOM	1424	OG	SER A	243	38.515	44.386	19.274	1.00	23.32
ATOM	1425	N	LEU A	244	37.635	42.115	16.979	1.00	20.52
ATOM	1426	CA	LEU A	244	37.454	40.649	17.145	1.00	18.32
ATOM	1427	C	LEU A	244	37.535	39.844	15.860	1.00	18.66
ATOM	1428	O	LEU A	244	37.482	38.576	15.892	1.00	18.25
ATOM	1429	CB	LEU A	244	36.120	40.368	17.843	1.00	18.01
ATOM	1430	CG	LEU A	244	35.998	41.054	19.206	1.00	17.93
ATOM	1431	CD1	LEU A	244	34.689	40.666	19.885	1.00	17.04
ATOM	1432	CD2	LEU A	244	37.189	40.661	20.063	1.00	19.23
ATOM	1433	N	TYR A	245	37.666	40.522	14.729	1.00	18.73
ATOM	1434	CA	TYR A	245	37.756	39.795	13.459	1.00	19.72
ATOM	1435	C	TYR A	245	38.536	40.545	12.398	1.00	20.55
ATOM	1436	O	TYR A	245	38.819	41.771	12.542	1.00	21.10
ATOM	1437	CB	TYR A	245	36.357	39.494	12.924	1.00	19.56
ATOM	1438	CG	TYR A	245	35.606	40.708	12.421	1.00	20.40
ATOM	1439	CD1	TYR A	245	34.977	41.586	13.302	1.00	20.11
ATOM	1440	CD2	TYR A	245	35.512	40.966	11.055	1.00	20.70
ATOM	1441	CE1	TYR A	245	34.265	42.689	12.834	1.00	21.90
ATOM	1442	CE2	TYR A	245	34.809	42.060	10.573	1.00	22.10
ATOM	1443	CZ	TYR A	245	34.184	42.919	11.466	1.00	23.05
ATOM	1444	OH	TYR A	245	33.476	43.993	10.979	1.00	22.53
ATOM	1445	N	THR A	246	38.902	39.829	11.340	1.00	20.48
ATOM	1446	CA	THR A	246	39.621	40.429	10.195	1.00	19.46
ATOM	1447	C	THR A	246	38.811	40.054	8.964	1.00	19.29
ATOM	1448	O	THR A	246	37.999	39.085	9.000	1.00	16.84
ATOM	1449	CB	THR A	246	41.049	39.865	10.031	1.00	19.69
ATOM	1450	OG1	THR A	246	40.997	38.434	9.953	1.00	20.05
ATOM	1451	CG2	THR A	246	41.929	40.294	11.194	1.00	19.01
ATOM	1452	N	GLY A	247	38.996	40.793	7.879	1.00	19.48
ATOM	1453	CA	GLY A	247	38.259	40.490	6.668	1.00	19.61
ATOM	1454	C	GLY A	247	36.812	40.927	6.747	1.00	20.26
ATOM	1455	O	GLY A	247	36.412	41.712	7.660	1.00	21.64
ATOM	1456	N	SER A	248	36.006	40.437	5.816	1.00	21.23
ATOM	1457	CA	SER A	248	34.580	40.806	5.765	1.00	23.54
ATOM	1458	C	SER A	248	33.649	39.836	6.484	1.00	23.00
ATOM	1459	O	SER A	248	33.978	38.625	6.684	1.00	21.96
ATOM	1460	CB	SER A	248	34.135	40.936	4.304	1.00	24.06
ATOM	1461	OG	SER A	248	34.814	41.999	3.656	1.00	28.27
ATOM	1462	N	LEU A	249	32.494	40.355	6.881	1.00	23.33
ATOM	1463	CA	LEU A	249	31.453	39.551	7.550	1.00	23.71
ATOM	1464	C	LEU A	249	30.478	39.103	6.468	1.00	23.26
ATOM	1465	O	LEU A	249	29.913	39.958	5.721	1.00	24.66
ATOM	1466	CB	LEU A	249	30.687	40.392	8.576	1.00	22.83
ATOM	1467	CG	LEU A	249	31.234	40.585	9.992	1.00	23.68
ATOM	1468	CD1	LEU A	249	30.483	41.728	10.659	1.00	23.07
ATOM	1469	CD2	LEU A	249	31.077	39.299	10.802	1.00	22.16
ATOM	1470	N	TRP A	250	30.285	37.797	6.335	1.00	21.28
ATOM	1471	CA	TRP A	250	29.328	37.282	5.348	1.00	18.03
ATOM	1472	C	TRP A	250	28.115	36.810	6.115	1.00	18.51
ATOM	1473	O	TRP A	250	28.242	36.079	7.153	1.00	18.65
ATOM	1474	CB	TRP A	250	29.925	36.128	4.550	1.00	19.15
ATOM	1475	CG	TRP A	250	30.759	36.597	3.411	1.00	19.10
ATOM	1476	CD1	TRP A	250	32.061	36.998	3.456	1.00	18.51
ATOM	1477	CD2	TRP A	250	30.328	36.777	2.058	1.00	18.74
ATOM	1478	NE1	TRP A	250	32.470	37.418	2.214	1.00	18.41
ATOM	1479	CE2	TRP A	250	31.425	37.294	1.336	1.00	18.71
ATOM	1480	CE3	TRP A	250	29.118	36.554	1.386	1.00	19.61
ATOM	1481	CZ2	TRP A	250	31.352	37.594	-0.029	1.00	18.57
ATOM	1482	CZ3	TRP A	250	29.043	36.853	0.026	1.00	20.92
ATOM	1483	CH2	TRP A	250	30.158	37.369	-0.666	1.00	17.98
ATOM	1484	N	TYR A	251	26.939	37.203	5.644	1.00	17.22

FIG. 1X

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ATOM	1485	CA	TYR A	251	25.699	36.825	6.328	1.00	16.85
ATOM	1486	C	TYR A	251	24.875	35.751	5.642	1.00	16.82
ATOM	1487	O	TYR A	251	24.668	35.782	4.397	1.00	17.05
ATOM	1488	CB	TYR A	251	24.814	38.059	6.536	1.00	17.46
ATOM	1489	CG	TYR A	251	25.389	39.070	7.493	1.00	17.27
ATOM	1490	CD1	TYR A	251	26.265	40.065	7.055	1.00	18.34
ATOM	1491	CD2	TYR A	251	25.076	39.018	8.852	1.00	16.39
ATOM	1492	CE1	TYR A	251	26.819	40.984	7.955	1.00	18.20
ATOM	1493	CE2	TYR A	251	25.622	39.925	9.753	1.00	17.81
ATOM	1494	CZ	TYR A	251	26.487	40.900	9.302	1.00	17.43
ATOM	1495	OH	TYR A	251	27.014	41.779	10.215	1.00	20.25
ATOM	1496	N	THR A	252	24.395	34.803	6.436	1.00	15.07
ATOM	1497	CA	THR A	252	23.525	33.725	5.933	1.00	14.48
ATOM	1498	C	THR A	252	22.204	33.996	6.646	1.00	16.15
ATOM	1499	O	THR A	252	22.193	34.429	7.845	1.00	16.66
ATOM	1500	CB	THR A	252	24.056	32.325	6.330	1.00	14.69
ATOM	1501	OG1	THR A	252	23.273	31.316	5.684	1.00	13.97
ATOM	1502	CG2	THR A	252	23.974	32.118	7.839	1.00	14.05
ATOM	1503	N	PRO A	253	21.070	33.774	5.972	1.00	15.93
ATOM	1504	CA	PRO A	253	19.826	34.054	6.694	1.00	17.09
ATOM	1505	C	PRO A	253	19.418	33.029	7.741	1.00	18.67
ATOM	1506	O	PRO A	253	19.782	31.813	7.653	1.00	17.11
ATOM	1507	CB	PRO A	253	18.789	34.161	5.572	1.00	17.20
ATOM	1508	CG	PRO A	253	19.304	33.207	4.545	1.00	17.18
ATOM	1509	CD	PRO A	253	20.809	33.468	4.553	1.00	17.14
ATOM	1510	N	ILE A	254	18.692	33.501	8.750	1.00	18.82
ATOM	1511	CA	ILE A	254	18.165	32.604	9.792	1.00	20.14
ATOM	1512	C	ILE A	254	16.885	32.091	9.137	1.00	21.33
ATOM	1513	O	ILE A	254	15.911	32.875	8.914	1.00	21.52
ATOM	1514	CB	ILE A	254	17.827	33.368	11.091	1.00	20.62
ATOM	1515	CG1	ILE A	254	19.124	33.752	11.806	1.00	20.82
ATOM	1516	CG2	ILE A	254	16.935	32.509	11.994	1.00	19.41
ATOM	1517	CD1	ILE A	254	18.920	34.458	13.127	1.00	22.19
ATOM	1518	N	ARG A	255	16.868	30.810	8.795	1.00	22.06
ATOM	1519	CA	ARG A	255	15.702	30.211	8.115	1.00	23.47
ATOM	1520	C	ARG A	255	14.398	30.343	8.880	1.00	24.68
ATOM	1521	O	ARG A	255	13.334	30.719	8.299	1.00	25.49
ATOM	1522	CB	ARG A	255	15.951	28.735	7.852	1.00	22.62
ATOM	1523	CG	ARG A	255	14.843	28.093	7.053	1.00	22.10
ATOM	1524	CD	ARG A	255	14.985	26.598	7.069	1.00	22.76
ATOM	1525	NE	ARG A	255	14.031	25.958	6.176	1.00	22.51
ATOM	1526	CZ	ARG A	255	13.692	24.679	6.256	1.00	22.37
ATOM	1527	NH1	ARG A	255	14.232	23.914	7.195	1.00	20.91
ATOM	1528	NH2	ARG A	255	12.819	24.166	5.396	1.00	23.78
ATOM	1529	N	ARG A	256	14.451	30.023	10.165	1.00	24.98
ATOM	1530	CA	ARG A	256	13.264	30.085	11.029	1.00	25.56
ATOM	1531	C	ARG A	256	13.723	30.441	12.438	1.00	24.84
ATOM	1532	O	ARG A	256	14.829	30.013	12.893	1.00	22.14
ATOM	1533	CB	ARG A	256	12.561	28.729	11.009	1.00	27.37
ATOM	1534	CG	ARG A	256	11.350	28.599	11.914	1.00	29.24
ATOM	1535	CD	ARG A	256	10.878	27.150	11.899	1.00	29.60
ATOM	1536	NE	ARG A	256	10.180	26.788	13.126	1.00	31.29
ATOM	1537	CZ	ARG A	256	10.043	25.543	13.563	1.00	31.25
ATOM	1538	NH1	ARG A	256	10.559	24.535	12.870	1.00	31.19
ATOM	1539	NH2	ARG A	256	9.398	25.307	14.698	1.00	32.97
ATOM	1540	N	GLU A	257	12.914	31.219	13.141	1.00	24.01
ATOM	1541	CA	GLU A	257	13.270	31.650	14.500	1.00	23.46
ATOM	1542	C	GLU A	257	12.829	30.739	15.636	1.00	23.02
ATOM	1543	O	GLU A	257	11.749	30.947	16.264	1.00	26.15
ATOM	1544	CB	GLU A	257	12.739	33.055	14.748	1.00	23.25
ATOM	1545	CG	GLU A	257	13.439	34.123	13.930	1.00	26.24
ATOM	1546	CD	GLU A	257	12.572	35.353	13.746	1.00	27.27

FIG. 1Y

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ATOM	1547	OE1	GLU A	257	13.124	36.470	13.673	1.00	27.35
ATOM	1548	OE2	GLU A	257	11.334	35.197	13.665	1.00	30.46
ATOM	1549	N	TRP A	258	13.632	29.719	15.898	1.00	19.64
ATOM	1550	CA	TRP A	258	13.390	28.798	17.016	1.00	19.75
ATOM	1551	C	TRP A	258	14.812	28.548	17.495	1.00	19.46
ATOM	1552	O	TRP A	258	15.267	29.190	18.500	1.00	20.47
ATOM	1553	CB	TRP A	258	12.632	27.537	16.561	1.00	18.27
ATOM	1554	CG	TRP A	258	13.203	26.710	15.455	1.00	17.96
ATOM	1555	CD1	TRP A	258	13.898	27.143	14.364	1.00	18.43
ATOM	1556	CD2	TRP A	258	13.051	25.293	15.298	1.00	17.87
ATOM	1557	NE1	TRP A	258	14.187	26.082	13.537	1.00	18.62
ATOM	1558	CE2	TRP A	258	13.678	24.935	14.088	1.00	17.86
ATOM	1559	CE3	TRP A	258	12.441	24.291	16.067	1.00	17.50
ATOM	1560	CZ2	TRP A	258	13.717	23.614	13.624	1.00	19.19
ATOM	1561	CZ3	TRP A	258	12.477	22.976	15.608	1.00	19.16
ATOM	1562	CH2	TRP A	258	13.113	22.650	14.396	1.00	18.86
ATOM	1563	N	TYR A	259	15.538	27.670	16.814	1.00	18.33
ATOM	1564	CA	TYR A	259	16.965	27.458	17.126	1.00	15.42
ATOM	1565	C	TYR A	259	17.550	28.474	16.157	1.00	16.46
ATOM	1566	O	TYR A	259	16.789	29.066	15.323	1.00	15.71
ATOM	1567	CB	TYR A	259	17.439	26.078	16.671	1.00	13.86
ATOM	1568	CG	TYR A	259	17.056	24.927	17.564	1.00	13.98
ATOM	1569	CD1	TYR A	259	17.876	24.539	18.627	1.00	13.32
ATOM	1570	CD2	TYR A	259	15.875	24.224	17.346	1.00	12.14
ATOM	1571	CE1	TYR A	259	17.520	23.467	19.450	1.00	15.06
ATOM	1572	CE2	TYR A	259	15.510	23.167	18.155	1.00	14.24
ATOM	1573	CZ	TYR A	259	16.329	22.789	19.200	1.00	14.26
ATOM	1574	OH	TYR A	259	15.940	21.719	19.955	1.00	12.92
ATOM	1575	N	TYR A	260	18.851	28.725	16.224	1.00	14.50
ATOM	1576	CA	TYR A	260	19.440	29.630	15.232	1.00	15.21
ATOM	1577	C	TYR A	260	19.716	28.718	14.037	1.00	15.90
ATOM	1578	O	TYR A	260	20.866	28.210	13.836	1.00	16.76
ATOM	1579	CB	TYR A	260	20.722	30.269	15.759	1.00	13.84
ATOM	1580	CG	TYR A	260	20.426	31.416	16.690	1.00	14.32
ATOM	1581	CD1	TYR A	260	20.534	31.270	18.078	1.00	13.41
ATOM	1582	CD2	TYR A	260	19.996	32.642	16.187	1.00	13.45
ATOM	1583	CE1	TYR A	260	20.224	32.320	18.933	1.00	13.15
ATOM	1584	CE2	TYR A	260	19.680	33.699	17.037	1.00	12.56
ATOM	1585	CZ	TYR A	260	19.801	33.530	18.404	1.00	13.22
ATOM	1586	OH	TYR A	260	19.531	34.582	19.239	1.00	12.88
ATOM	1587	N	GLU A	261	18.664	28.476	13.260	1.00	15.81
ATOM	1588	CA	GLU A	261	18.741	27.586	12.081	1.00	17.54
ATOM	1589	C	GLU A	261	19.191	28.266	10.791	1.00	17.31
ATOM	1590	O	GLU A	261	18.665	29.355	10.402	1.00	16.63
ATOM	1591	CB	GLU A	261	17.382	26.914	11.842	1.00	16.53
ATOM	1592	CG	GLU A	261	17.326	26.076	10.573	1.00	19.47
ATOM	1593	CD	GLU A	261	15.965	25.454	10.326	1.00	20.18
ATOM	1594	OE1	GLU A	261	14.956	26.037	10.766	1.00	21.27
ATOM	1595	OE2	GLU A	261	15.902	24.390	9.673	1.00	20.94
ATOM	1596	N	VAL A	262	20.153	27.640	10.122	1.00	16.45
ATOM	1597	CA	VAL A	262	20.679	28.147	8.842	1.00	16.13
ATOM	1598	C	VAL A	262	20.620	27.006	7.831	1.00	17.33
ATOM	1599	O	VAL A	262	20.168	25.863	8.166	1.00	17.30
ATOM	1600	CB	VAL A	262	22.131	28.624	8.982	1.00	14.58
ATOM	1601	CG1	VAL A	262	22.218	29.690	10.064	1.00	14.84
ATOM	1602	CG2	VAL A	262	23.039	27.449	9.306	1.00	14.53
ATOM	1603	N	ILE A	263	21.064	27.271	6.608	1.00	17.34
ATOM	1604	CA	ILE A	263	21.044	26.245	5.554	1.00	16.67
ATOM	1605	C	ILE A	263	22.419	26.042	4.931	1.00	16.64
ATOM	1606	O	ILE A	263	23.054	27.016	4.418	1.00	17.50
ATOM	1607	CB	ILE A	263	20.031	26.619	4.445	1.00	18.45
ATOM	1608	CG1	ILE A	263	18.608	26.522	4.996	1.00	18.90

FIG. 1Z

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ATOM	1609	CG2	ILE A	263	20.192	25.694	3.243	1.00	18.17
ATOM	1610	CD1	ILE A	263	17.541	26.974	4.023	1.00	23.31
ATOM	1611	N	ILE A	264	22.897	24.802	4.988	1.00	16.67
ATOM	1612	CA	ILE A	264	24.199	24.413	4.409	1.00	14.63
ATOM	1613	C	ILE A	264	23.882	23.836	3.031	1.00	16.44
ATOM	1614	O	ILE A	264	23.019	22.915	2.908	1.00	13.53
ATOM	1615	CB	ILE A	264	24.877	23.320	5.253	1.00	14.79
ATOM	1616	CG1	ILE A	264	25.174	23.855	6.657	1.00	12.53
ATOM	1617	CG2	ILE A	264	26.154	22.846	4.563	1.00	12.07
ATOM	1618	CD1	ILE A	264	25.685	22.799	7.615	1.00	12.69
ATOM	1619	N	VAL A	265	24.546	24.334	1.992	1.00	17.37
ATOM	1620	CA	VAL A	265	24.258	23.841	0.627	1.00	18.64
ATOM	1621	C	VAL A	265	25.368	23.004	0.006	1.00	19.95
ATOM	1622	O	VAL A	265	25.202	22.455	-1.127	1.00	19.29
ATOM	1623	CB	VAL A	265	23.956	25.011	-0.322	1.00	18.56
ATOM	1624	CG1	VAL A	265	22.874	25.901	0.287	1.00	16.70
ATOM	1625	CG2	VAL A	265	25.227	25.802	-0.590	1.00	17.47
ATOM	1626	N	ARG A	266	26.486	22.872	0.707	1.00	20.42
ATOM	1627	CA	ARG A	266	27.617	22.098	0.165	1.00	20.48
ATOM	1628	C	ARG A	266	28.752	22.044	1.162	1.00	19.59
ATOM	1629	O	ARG A	266	29.030	23.055	1.885	1.00	19.51
ATOM	1630	CB	ARG A	266	28.112	22.763	-1.129	1.00	22.33
ATOM	1631	CG	ARG A	266	29.417	22.218	-1.713	1.00	22.40
ATOM	1632	CD	ARG A	266	29.939	23.170	-2.789	1.00	24.49
ATOM	1633	NE	ARG A	266	31.244	22.785	-3.322	1.00	24.49
ATOM	1634	CZ	ARG A	266	31.444	22.266	-4.528	1.00	26.46
ATOM	1635	NH1	ARG A	266	30.426	22.061	-5.349	1.00	25.31
ATOM	1636	NH2	ARG A	266	32.672	21.956	-4.920	1.00	27.88
ATOM	1637	N	VAL A	267	29.404	20.891	1.246	1.00	18.31
ATOM	1638	CA	VAL A	267	30.561	20.766	2.136	1.00	18.32
ATOM	1639	C	VAL A	267	31.671	20.072	1.369	1.00	18.25
ATOM	1640	O	VAL A	267	31.409	19.192	0.489	1.00	19.14
ATOM	1641	CB	VAL A	267	30.248	19.974	3.456	1.00	18.72
ATOM	1642	CG1	VAL A	267	28.784	19.645	3.547	1.00	18.30
ATOM	1643	CG2	VAL A	267	31.112	18.728	3.554	1.00	17.65
ATOM	1644	N	GLU A	268	32.903	20.471	1.647	1.00	16.18
ATOM	1645	CA	GLU A	268	34.046	19.848	0.990	1.00	17.71
ATOM	1646	C	GLU A	268	35.169	19.546	1.970	1.00	16.08
ATOM	1647	O	GLU A	268	35.293	20.191	3.064	1.00	13.62
ATOM	1648	CB	GLU A	268	34.550	20.717	-0.177	1.00	18.50
ATOM	1649	CG	GLU A	268	34.430	22.207	0.030	1.00	22.46
ATOM	1650	CD	GLU A	268	34.888	23.016	-1.181	1.00	22.13
ATOM	1651	OE1	GLU A	268	34.216	22.970	-2.237	1.00	20.91
ATOM	1652	OE2	GLU A	268	35.927	23.703	-1.067	1.00	22.44
ATOM	1653	N	ILE A	269	35.948	18.531	1.623	1.00	13.57
ATOM	1654	CA	ILE A	269	37.103	18.112	2.418	1.00	13.89
ATOM	1655	C	ILE A	269	38.259	18.448	1.485	1.00	14.06
ATOM	1656	O	ILE A	269	38.396	17.832	0.386	1.00	14.03
ATOM	1657	CB	ILE A	269	37.051	16.596	2.703	1.00	14.48
ATOM	1658	CG1	ILE A	269	35.697	16.239	3.327	1.00	14.59
ATOM	1659	CG2	ILE A	269	38.180	16.193	3.645	1.00	12.12
ATOM	1660	CD1	ILE A	269	35.358	17.022	4.592	1.00	13.16
ATOM	1661	N	ASN A	270	39.067	19.431	1.872	1.00	14.16
ATOM	1662	CA	ASN A	270	40.205	19.886	1.038	1.00	13.20
ATOM	1663	C	ASN A	270	39.774	20.177	-0.399	1.00	13.24
ATOM	1664	O	ASN A	270	40.427	19.714	-1.385	1.00	13.72
ATOM	1665	CB	ASN A	270	41.336	18.852	1.047	1.00	11.19
ATOM	1666	CG	ASN A	270	42.424	19.186	2.054	1.00	13.23
ATOM	1667	OD1	ASN A	270	42.339	20.224	2.790	1.00	13.62
ATOM	1668	ND2	ASN A	270	43.454	18.348	2.117	1.00	11.67
ATOM	1669	N	GLY A	271	38.691	20.932	-0.540	1.00	13.07
ATOM	1670	CA	GLY A	271	38.210	21.302	-1.858	1.00	13.58

FIG. 1AA

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ATOM	1671	C	GLY A	271	37.393	20.241	-2.564	1.00	14.87
ATOM	1672	O	GLY A	271	36.704	20.545	-3.581	1.00	13.70
ATOM	1673	N	GLN A	272	37.447	19.005	-2.076	1.00	14.64
ATOM	1674	CA	GLN A	272	36.674	17.914	-2.705	1.00	14.45
ATOM	1675	C	GLN A	272	35.261	17.870	-2.140	1.00	15.83
ATOM	1676	O	GLN A	272	35.050	17.717	-0.902	1.00	15.81
ATOM	1677	CB	GLN A	272	37.357	16.561	-2.486	1.00	14.85
ATOM	1678	CG	GLN A	272	36.692	15.421	-3.250	1.00	14.45
ATOM	1679	CD	GLN A	272	37.499	14.135	-3.211	1.00	16.34
ATOM	1680	OE1	GLN A	272	37.097	13.134	-2.535	1.00	20.05
ATOM	1681	NE2	GLN A	272	38.633	14.121	-3.909	1.00	13.09
ATOM	1682	N	ASP A	273	34.291	17.995	-3.035	1.00	16.17
ATOM	1683	CA	ASP A	273	32.857	17.987	-2.686	1.00	17.89
ATOM	1684	C	ASP A	273	32.388	16.612	-2.201	1.00	16.92
ATOM	1685	O	ASP A	273	32.713	15.566	-2.831	1.00	16.53
ATOM	1686	CB	ASP A	273	32.060	18.395	-3.930	1.00	20.38
ATOM	1687	CG	ASP A	273	30.576	18.526	-3.665	1.00	20.89
ATOM	1688	OD1	ASP A	273	29.827	18.788	-4.630	1.00	21.98
ATOM	1689	OD2	ASP A	273	30.155	18.378	-2.503	1.00	22.40
ATOM	1690	N	LEU A	274	31.639	16.576	-1.101	1.00	17.95
ATOM	1691	CA	LEU A	274	31.117	15.285	-0.587	1.00	19.37
ATOM	1692	C	LEU A	274	30.092	14.805	-1.598	1.00	21.18
ATOM	1693	O	LEU A	274	29.702	13.603	-1.623	1.00	20.08
ATOM	1694	CB	LEU A	274	30.451	15.455	0.783	1.00	18.46
ATOM	1695	CG	LEU A	274	31.356	15.595	2.011	1.00	19.89
ATOM	1696	CD1	LEU A	274	30.489	15.558	3.267	1.00	17.23
ATOM	1697	CD2	LEU A	274	32.392	14.463	2.050	1.00	17.76
ATOM	1698	N	LYS A	275	29.646	15.736	-2.431	1.00	24.29
ATOM	1699	CA	LYS A	275	28.676	15.452	-3.501	1.00	29.08
ATOM	1700	C	LYS A	275	27.439	14.715	-3.000	1.00	28.92
ATOM	1701	O	LYS A	275	27.119	13.586	-3.464	1.00	30.50
ATOM	1702	CB	LYS A	275	29.360	14.642	-4.608	1.00	30.50
ATOM	1703	CG	LYS A	275	28.720	14.818	-5.970	1.00	33.82
ATOM	1704	CD	LYS A	275	29.476	14.059	-7.042	1.00	36.63
ATOM	1705	CE	LYS A	275	28.848	14.297	-8.408	1.00	38.29
ATOM	1706	NZ	LYS A	275	28.742	15.759	-8.702	1.00	39.43
ATOM	1707	N	MET A	276	26.734	15.329	-2.063	1.00	30.55
ATOM	1708	CA	MET A	276	25.519	14.722	-1.505	1.00	30.03
ATOM	1709	C	MET A	276	24.319	15.592	-1.815	1.00	30.11
ATOM	1710	O	MET A	276	24.465	16.818	-2.117	1.00	28.94
ATOM	1711	CB	MET A	276	25.641	14.576	0.011	1.00	30.29
ATOM	1712	CG	MET A	276	26.706	13.605	0.469	1.00	30.69
ATOM	1713	SD	MET A	276	26.687	13.418	2.261	1.00	32.94
ATOM	1714	CE	MET A	276	25.174	12.457	2.477	1.00	31.04
ATOM	1715	N	ASP A	277	23.136	14.994	-1.756	1.00	31.37
ATOM	1716	CA	ASP A	277	21.906	15.750	-1.994	1.00	33.34
ATOM	1717	C	ASP A	277	21.903	16.864	-0.955	1.00	33.96
ATOM	1718	O	ASP A	277	22.070	16.608	-0.278	1.00	30.80
ATOM	1719	CB	ASP A	277	20.682	14.851	-1.818	1.00	36.24
ATOM	1720	CG	ASP A	277	19.377	15.595	-2.029	1.00	38.93
ATOM	1721	OD1	ASP A	277	18.332	14.925	-2.168	1.00	42.69
ATOM	1722	OD2	ASP A	277	19.386	16.844	-2.049	1.00	39.38
ATOM	1723	N	CYS A	278	21.732	18.089	-1.432	1.00	34.50
ATOM	1724	CA	CYS A	278	21.725	19.294	-0.581	1.00	37.44
ATOM	1725	C	CYS A	278	20.988	19.126	0.749	1.00	35.96
ATOM	1726	O	CYS A	278	21.503	19.540	1.834	1.00	34.38
ATOM	1727	CB	CYS A	278	21.108	20.460	-1.362	1.00	39.86
ATOM	1728	SG	CYS A	278	21.760	22.075	-0.852	1.00	50.09
ATOM	1729	N	LYS A	279	19.802	18.529	0.705	1.00	33.76
ATOM	1730	CA	LYS A	279	19.003	18.359	1.931	1.00	32.65
ATOM	1731	C	LYS A	279	19.584	17.430	2.996	1.00	30.06
ATOM	1732	O	LYS A	279	19.173	17.501	4.189	1.00	27.89

FIG. 1BB

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ATOM	1733	CB	LYS A	279	17.574	17.939	1.567	1.00	34.74
ATOM	1734	CG	LYS A	279	17.459	16.765	0.612	1.00	39.08
ATOM	1735	CD	LYS A	279	17.576	15.429	1.326	1.00	41.32
ATOM	1736	CE	LYS A	279	17.185	14.289	0.393	1.00	42.86
ATOM	1737	NZ	LYS A	279	17.118	12.978	1.099	1.00	45.07
ATOM	1738	N	GLU A	280	20.525	16.570	2.621	1.00	27.06
ATOM	1739	CA	GLU A	280	21.141	15.659	3.612	1.00	26.22
ATOM	1740	C	GLU A	280	21.900	16.458	4.673	1.00	25.34
ATOM	1741	O	GLU A	280	21.920	16.074	5.886	1.00	23.01
ATOM	1742	CB	GLU A	280	22.109	14.693	2.928	1.00	27.98
ATOM	1743	CG	GLU A	280	21.459	13.725	1.946	1.00	31.24
ATOM	1744	CD	GLU A	280	20.486	12.765	2.610	1.00	32.55
ATOM	1745	OE1	GLU A	280	20.447	12.704	3.857	1.00	33.21
ATOM	1746	OE2	GLU A	280	19.763	12.058	1.878	1.00	34.72
ATOM	1747	N	TYR A	281	22.515	17.562	4.255	1.00	23.32
ATOM	1748	CA	TYR A	281	23.295	18.420	5.176	1.00	22.69
ATOM	1749	C	TYR A	281	22.415	19.082	6.219	1.00	23.40
ATOM	1750	O	TYR A	281	22.904	19.470	7.327	1.00	23.11
ATOM	1751	CB	TYR A	281	24.035	19.515	4.400	1.00	20.26
ATOM	1752	CG	TYR A	281	24.958	18.993	3.328	1.00	19.39
ATOM	1753	CD1	TYR A	281	25.858	17.961	3.601	1.00	17.78
ATOM	1754	CD2	TYR A	281	24.943	19.534	2.042	1.00	18.55
ATOM	1755	CE1	TYR A	281	26.719	17.478	2.623	1.00	17.05
ATOM	1756	CE2	TYR A	281	25.808	19.058	1.051	1.00	18.53
ATOM	1757	CZ	TYR A	281	26.692	18.028	1.355	1.00	17.87
ATOM	1758	OH	TYR A	281	27.558	17.533	0.407	1.00	18.13
ATOM	1759	N	ASN A	282	21.136	19.232	5.899	1.00	22.82
ATOM	1760	CA	ASN A	282	20.194	19.881	6.820	1.00	23.17
ATOM	1761	C	ASN A	282	19.089	18.922	7.238	1.00	23.84
ATOM	1762	O	ASN A	282	17.987	19.366	7.685	1.00	21.83
ATOM	1763	CB	ASN A	282	19.598	21.111	6.137	1.00	22.42
ATOM	1764	CG	ASN A	282	20.665	22.018	5.549	1.00	23.90
ATOM	1765	OD1	ASN A	282	21.426	22.693	6.298	1.00	23.87
ATOM	1766	ND2	ASN A	282	20.760	22.044	4.224	1.00	23.36
ATOM	1767	N	TYR A	283	19.343	17.623	7.102	1.00	25.74
ATOM	1768	CA	TYR A	283	18.322	16.633	7.472	1.00	28.01
ATOM	1769	C	TYR A	283	17.905	16.843	8.912	1.00	29.29
ATOM	1770	O	TYR A	283	18.686	16.572	9.881	1.00	27.50
ATOM	1771	CB	TYR A	283	18.810	15.200	7.280	1.00	29.52
ATOM	1772	CG	TYR A	283	17.783	14.200	7.756	1.00	31.64
ATOM	1773	CD1	TYR A	283	16.428	14.374	7.460	1.00	32.38
ATOM	1774	CD2	TYR A	283	18.153	13.098	8.523	1.00	33.44
ATOM	1775	CE1	TYR A	283	15.468	13.479	7.919	1.00	33.96
ATOM	1776	CE2	TYR A	283	17.201	12.194	8.987	1.00	35.48
ATOM	1777	CZ	TYR A	283	15.860	12.392	8.683	1.00	35.35
ATOM	1778	OH	TYR A	283	14.918	11.504	9.149	1.00	36.54
ATOM	1779	N	ASP A	284	16.665	17.299	9.043	1.00	30.23
ATOM	1780	CA	ASP A	284	16.026	17.638	10.312	1.00	28.41
ATOM	1781	C	ASP A	284	16.273	19.129	10.409	1.00	27.12
ATOM	1782	O	ASP A	284	15.309	19.953	10.305	1.00	25.19
ATOM	1783	CB	ASP A	284	16.684	16.928	11.494	1.00	33.07
ATOM	1784	CG	ASP A	284	16.035	17.283	12.813	1.00	33.49
ATOM	1785	OD1	ASP A	284	16.520	16.815	13.860	1.00	37.38
ATOM	1786	OD2	ASP A	284	15.035	18.031	12.802	1.00	35.95
ATOM	1787	N	LYS A	285	17.542	19.499	10.563	1.00	22.62
ATOM	1788	CA	LYS A	285	17.914	20.927	10.678	1.00	20.42
ATOM	1789	C	LYS A	285	19.420	21.145	10.812	1.00	19.89
ATOM	1790	O	LYS A	285	20.209	20.174	11.037	1.00	19.63
ATOM	1791	CB	LYS A	285	17.230	21.540	11.903	1.00	18.63
ATOM	1792	CG	LYS A	285	17.753	20.987	13.232	1.00	16.63
ATOM	1793	CD	LYS A	285	16.966	21.538	14.421	1.00	14.93
ATOM	1794	CE	LYS A	285	17.551	21.088	15.754	1.00	15.57

FIG. 1CC

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ATOM	1795	NZ	LYS A 285	17.482	19.606	15.974	1.00	13.50
ATOM	1796	N	SER A 286	19.827	22.402	10.678	1.00	17.19
ATOM	1797	CA	SER A 286	21.241	22.808	10.827	1.00	16.52
ATOM	1798	C	SER A 286	21.228	24.034	11.727	1.00	15.74
ATOM	1799	O	SER A 286	20.592	25.080	11.377	1.00	14.46
ATOM	1800	CB	SER A 286	21.862	23.179	9.475	1.00	16.90
ATOM	1801	OG	SER A 286	22.064	22.036	8.671	1.00	16.60
ATOM	1802	N	ILE A 287	21.900	23.946	12.870	1.00	13.25
ATOM	1803	CA	ILE A 287	21.933	25.079	13.805	1.00	13.97
ATOM	1804	C	ILE A 287	23.342	25.511	14.206	1.00	15.14
ATOM	1805	O	ILE A 287	24.346	24.750	14.024	1.00	14.63
ATOM	1806	CB	ILE A 287	21.145	24.757	15.102	1.00	13.55
ATOM	1807	CG1	ILE A 287	21.898	23.717	15.929	1.00	12.52
ATOM	1808	CG2	ILE A 287	19.758	24.214	14.754	1.00	12.10
ATOM	1809	CD1	ILE A 287	21.274	23.455	17.283	1.00	14.43
ATOM	1810	N	VAL A 288	23.431	26.728	14.732	1.00	14.78
ATOM	1811	CA	VAL A 288	24.701	27.292	15.223	1.00	15.54
ATOM	1812	C	VAL A 288	24.510	27.262	16.733	1.00	16.05
ATOM	1813	O	VAL A 288	23.571	27.930	17.278	1.00	15.61
ATOM	1814	CB	VAL A 288	24.896	28.751	14.767	1.00	15.19
ATOM	1815	CG1	VAL A 288	26.248	29.259	15.239	1.00	14.78
ATOM	1816	CG2	VAL A 288	24.791	28.842	13.246	1.00	15.19
ATOM	1817	N	ASP A 289	25.355	26.512	17.430	1.00	15.91
ATOM	1818	CA	ASP A 289	25.194	26.373	18.891	1.00	14.81
ATOM	1819	C	ASP A 289	26.467	26.444	19.724	1.00	15.27
ATOM	1820	O	ASP A 289	27.322	25.504	19.700	1.00	15.75
ATOM	1821	CB	ASP A 289	24.467	25.060	19.168	1.00	12.65
ATOM	1822	CG	ASP A 289	24.264	24.806	20.634	1.00	13.29
ATOM	1823	OD1	ASP A 289	24.372	25.768	21.426	1.00	11.88
ATOM	1824	OD2	ASP A 289	23.981	23.639	20.988	1.00	10.63
ATOM	1825	N	SER A 290	26.604	27.529	20.479	1.00	15.19
ATOM	1826	CA	SER A 290	27.782	27.730	21.346	1.00	14.55
ATOM	1827	C	SER A 290	27.770	26.748	22.510	1.00	15.43
ATOM	1828	O	SER A 290	28.823	26.539	23.186	1.00	13.77
ATOM	1829	CB	SER A 290	27.795	29.165	21.888	1.00	15.33
ATOM	1830	OG	SER A 290	26.614	29.442	22.620	1.00	12.79
ATOM	1831	N	GLY A 291	26.612	26.137	22.759	1.00	14.34
ATOM	1832	CA	GLY A 291	26.486	25.192	23.856	1.00	14.93
ATOM	1833	C	GLY A 291	26.779	23.751	23.479	1.00	16.64
ATOM	1834	O	GLY A 291	26.502	22.792	24.277	1.00	14.49
ATOM	1835	N	THR A 292	27.305	23.556	22.277	1.00	16.47
ATOM	1836	CA	THR A 292	27.674	22.202	21.812	1.00	15.30
ATOM	1837	C	THR A 292	29.159	22.215	21.482	1.00	14.67
ATOM	1838	O	THR A 292	29.653	23.102	20.725	1.00	13.26
ATOM	1839	CB	THR A 292	26.889	21.784	20.550	1.00	15.29
ATOM	1840	OG1	THR A 292	25.522	21.521	20.895	1.00	13.88
ATOM	1841	CG2	THR A 292	27.514	20.527	19.932	1.00	13.59
ATOM	1842	N	THR A 293	29.887	21.253	22.027	1.00	14.43
ATOM	1843	CA	THR A 293	31.343	21.162	21.801	1.00	12.76
ATOM	1844	C	THR A 293	31.749	20.906	20.348	1.00	14.47
ATOM	1845	O	THR A 293	32.478	21.735	19.712	1.00	14.61
ATOM	1846	CB	THR A 293	31.949	20.035	22.650	1.00	12.36
ATOM	1847	OG1	THR A 293	31.726	20.304	24.041	1.00	10.79
ATOM	1848	CG2	THR A 293	33.437	19.916	22.382	1.00	9.56
ATOM	1849	N	ASN A 294	31.286	19.783	19.810	1.00	13.53
ATOM	1850	CA	ASN A 294	31.648	19.349	18.440	1.00	15.26
ATOM	1851	C	ASN A 294	30.871	19.917	17.276	1.00	15.45
ATOM	1852	O	ASN A 294	29.851	20.662	17.431	1.00	13.68
ATOM	1853	CB	ASN A 294	31.494	17.832	18.307	1.00	14.81
ATOM	1854	CG	ASN A 294	32.351	17.051	19.270	1.00	14.13
ATOM	1855	OD1	ASN A 294	32.264	15.791	19.304	1.00	19.85
ATOM	1856	ND2	ASN A 294	33.174	17.734	20.051	1.00	13.25

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ATOM	1857	N	LEU	A	295	31.365	19.556	16.096	1.00	15.21
ATOM	1858	CA	LEU	A	295	30.689	19.866	14.835	1.00	15.29
ATOM	1859	C	LEU	A	295	29.924	18.548	14.719	1.00	16.43
ATOM	1860	O	LEU	A	295	30.556	17.452	14.575	1.00	16.34
ATOM	1861	CB	LEU	A	295	31.674	19.963	13.671	1.00	13.54
ATOM	1862	CG	LEU	A	295	31.017	19.837	12.287	1.00	14.74
ATOM	1863	CD1	LEU	A	295	29.991	20.947	12.109	1.00	14.37
ATOM	1864	CD2	LEU	A	295	32.073	19.903	11.179	1.00	13.91
ATOM	1865	N	ARG	A	296	28.606	18.591	14.831	1.00	16.08
ATOM	1866	CA	ARG	A	296	27.827	17.349	14.719	1.00	17.47
ATOM	1867	C	ARG	A	296	27.180	17.300	13.343	1.00	17.04
ATOM	1868	O	ARG	A	296	26.655	18.339	12.840	1.00	15.28
ATOM	1869	CB	ARG	A	296	26.785	17.290	15.834	1.00	18.37
ATOM	1870	CG	ARG	A	296	27.421	17.444	17.208	1.00	19.73
ATOM	1871	CD	ARG	A	296	26.425	17.262	18.324	1.00	22.63
ATOM	1872	NE	ARG	A	296	26.292	15.867	18.722	1.00	25.23
ATOM	1873	CZ	ARG	A	296	25.135	15.223	18.776	1.00	26.52
ATOM	1874	NH1	ARG	A	296	24.011	15.851	18.446	1.00	27.11
ATOM	1875	NH2	ARG	A	296	25.100	13.961	19.179	1.00	27.00
ATOM	1876	N	LEU	A	297	27.211	16.123	12.722	1.00	15.65
ATOM	1877	CA	LEU	A	297	26.660	15.945	11.356	1.00	15.33
ATOM	1878	C	LEU	A	297	25.657	14.800	11.246	1.00	17.46
ATOM	1879	O	LEU	A	297	25.795	13.743	11.938	1.00	16.37
ATOM	1880	CB	LEU	A	297	27.806	15.681	10.371	1.00	12.00
ATOM	1881	CG	LEU	A	297	28.925	16.729	10.277	1.00	11.84
ATOM	1882	CD1	LEU	A	297	30.136	16.148	9.561	1.00	8.16
ATOM	1883	CD2	LEU	A	297	28.410	17.962	9.559	1.00	8.99
ATOM	1884	N	PRO	A	298	24.636	14.960	10.386	1.00	19.11
ATOM	1885	CA	PRO	A	298	23.636	13.901	10.217	1.00	20.53
ATOM	1886	C	PRO	A	298	24.387	12.619	9.868	1.00	21.03
ATOM	1887	O	PRO	A	298	25.419	12.668	9.131	1.00	21.77
ATOM	1888	CB	PRO	A	298	22.788	14.411	9.054	1.00	19.18
ATOM	1889	CG	PRO	A	298	22.861	15.897	9.209	1.00	20.46
ATOM	1890	CD	PRO	A	298	24.335	16.111	9.517	1.00	19.69
ATOM	1891	N	LYS	A	299	23.911	11.487	10.376	1.00	22.77
ATOM	1892	CA	LYS	A	299	24.562	10.169	10.137	1.00	25.34
ATOM	1893	C	LYS	A	299	25.169	9.979	8.753	1.00	24.56
ATOM	1894	O	LYS	A	299	26.393	9.681	8.617	1.00	22.24
ATOM	1895	CB	LYS	A	299	23.566	9.034	10.387	1.00	29.05
ATOM	1896	CG	LYS	A	299	24.156	7.650	10.146	1.00	33.27
ATOM	1897	CD	LYS	A	299	23.144	6.547	10.408	1.00	37.10
ATOM	1898	CE	LYS	A	299	23.758	5.178	10.151	1.00	38.78
ATOM	1899	NZ	LYS	A	299	22.775	4.077	10.380	1.00	42.51
ATOM	1900	N	LYS	A	300	24.340	10.127	7.729	1.00	24.24
ATOM	1901	CA	LYS	A	300	24.774	9.955	6.333	1.00	25.41
ATOM	1902	C	LYS	A	300	25.901	10.916	5.952	1.00	24.12
ATOM	1903	O	LYS	A	300	26.889	10.515	5.262	1.00	23.67
ATOM	1904	CB	LYS	A	300	23.576	10.154	5.403	1.00	28.77
ATOM	1905	CG	LYS	A	300	23.788	9.660	3.990	1.00	33.37
ATOM	1906	CD	LYS	A	300	22.661	8.718	3.569	1.00	38.01
ATOM	1907	CE	LYS	A	300	21.298	9.393	3.652	1.00	40.18
ATOM	1908	NZ	LYS	A	300	20.191	8.455	3.291	1.00	42.69
ATOM	1909	N	VAL	A	301	25.784	12.172	6.368	1.00	20.46
ATOM	1910	CA	VAL	A	301	26.832	13.169	6.058	1.00	18.21
ATOM	1911	C	VAL	A	301	28.083	12.842	6.867	1.00	17.93
ATOM	1912	O	VAL	A	301	29.241	12.929	6.343	1.00	16.84
ATOM	1913	CB	VAL	A	301	26.358	14.601	6.391	1.00	17.29
ATOM	1914	CG1	VAL	A	301	27.468	15.605	6.105	1.00	15.43
ATOM	1915	CG2	VAL	A	301	25.118	14.935	5.565	1.00	16.34
ATOM	1916	N	PHE	A	302	27.887	12.448	8.122	1.00	17.43
ATOM	1917	CA	PHE	A	302	29.032	12.099	8.990	1.00	18.16
ATOM	1918	C	PHE	A	302	29.854	10.957	8.399	1.00	18.95

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ATOM	1919	O	PHE	A	302	31.121	11.004	8.399	1.00	18.60
ATOM	1920	CB	PHE	A	302	28.550	11.713	10.391	1.00	17.38
ATOM	1921	CG	PHE	A	302	29.639	11.180	11.265	1.00	19.16
ATOM	1922	CD1	PHE	A	302	29.866	9.810	11.362	1.00	17.81
ATOM	1923	CD2	PHE	A	302	30.498	12.051	11.923	1.00	18.89
ATOM	1924	CE1	PHE	A	302	30.934	9.320	12.096	1.00	19.63
ATOM	1925	CE2	PHE	A	302	31.573	11.569	12.660	1.00	19.90
ATOM	1926	CZ	PHE	A	302	31.793	10.201	12.747	1.00	19.13
ATOM	1927	N	GLU	A	303	29.172	9.931	7.901	1.00	19.20
ATOM	1928	CA	GLU	A	303	29.859	8.769	7.295	1.00	21.56
ATOM	1929	C	GLU	A	303	30.679	9.189	6.083	1.00	19.19
ATOM	1930	O	GLU	A	303	31.865	8.777	5.929	1.00	18.04
ATOM	1931	CB	GLU	A	303	28.836	7.704	6.888	1.00	24.72
ATOM	1932	CG	GLU	A	303	28.246	6.939	8.069	1.00	29.90
ATOM	1933	CD	GLU	A	303	27.051	6.076	7.683	1.00	33.77
ATOM	1934	OE1	GLU	A	303	26.585	5.294	8.541	1.00	36.31
ATOM	1935	OE2	GLU	A	303	26.572	6.183	6.528	1.00	36.51
ATOM	1936	N	ALA	A	304	30.088	9.998	5.216	1.00	17.86
ATOM	1937	CA	ALA	A	304	30.805	10.472	4.007	1.00	18.11
ATOM	1938	C	ALA	A	304	31.999	11.354	4.386	1.00	17.49
ATOM	1939	O	ALA	A	304	33.102	11.242	3.777	1.00	17.76
ATOM	1940	CB	ALA	A	304	29.849	11.244	3.102	1.00	17.14
ATOM	1941	N	ALA	A	305	31.812	12.221	5.377	1.00	17.06
ATOM	1942	CA	ALA	A	305	32.900	13.128	5.829	1.00	16.43
ATOM	1943	C	ALA	A	305	34.092	12.387	6.440	1.00	16.39
ATOM	1944	O	ALA	A	305	35.272	12.644	6.054	1.00	17.78
ATOM	1945	CB	ALA	A	305	32.351	14.140	6.833	1.00	15.92
ATOM	1946	N	VAL	A	306	33.842	11.476	7.375	1.00	15.50
ATOM	1947	CA	VAL	A	306	34.971	10.756	8.004	1.00	17.31
ATOM	1948	C	VAL	A	306	35.719	9.920	6.987	1.00	16.95
ATOM	1949	O	VAL	A	306	36.983	9.829	7.029	1.00	16.21
ATOM	1950	CB	VAL	A	306	34.514	9.845	9.162	1.00	17.93
ATOM	1951	CG1	VAL	A	306	33.954	10.693	10.280	1.00	19.37
ATOM	1952	CG2	VAL	A	306	33.477	8.851	8.669	1.00	19.63
ATOM	1953	N	LYS	A	307	34.987	9.307	6.065	1.00	17.11
ATOM	1954	CA	LYS	A	307	35.641	8.488	5.032	1.00	18.39
ATOM	1955	C	LYS	A	307	36.654	9.350	4.279	1.00	17.59
ATOM	1956	O	LYS	A	307	37.848	8.959	4.107	1.00	18.09
ATOM	1957	CB	LYS	A	307	34.602	7.940	4.052	1.00	19.72
ATOM	1958	CG	LYS	A	307	35.212	7.112	2.930	1.00	24.02
ATOM	1959	CD	LYS	A	307	34.147	6.415	2.102	1.00	26.72
ATOM	1960	CE	LYS	A	307	34.779	5.505	1.058	1.00	29.36
ATOM	1961	NZ	LYS	A	307	33.745	4.869	0.193	1.00	31.68
ATOM	1962	N	SER	A	308	36.205	10.520	3.842	1.00	16.75
ATOM	1963	CA	SER	A	308	37.059	11.460	3.091	1.00	17.46
ATOM	1964	C	SER	A	308	38.198	12.000	3.953	1.00	16.11
ATOM	1965	O	SER	A	308	39.378	12.056	3.501	1.00	17.12
ATOM	1966	CB	SER	A	308	36.208	12.620	2.560	1.00	17.51
ATOM	1967	OG	SER	A	308	36.982	13.505	1.774	1.00	19.76
ATOM	1968	N	ILE	A	309	37.886	12.400	5.180	1.00	16.07
ATOM	1969	CA	ILE	A	309	38.926	12.927	6.083	1.00	14.41
ATOM	1970	C	ILE	A	309	39.945	11.831	6.378	1.00	14.93
ATOM	1971	O	ILE	A	309	41.171	12.112	6.505	1.00	14.90
ATOM	1972	CB	ILE	A	309	38.310	13.439	7.401	1.00	13.88
ATOM	1973	CG1	ILE	A	309	37.346	14.595	7.099	1.00	13.08
ATOM	1974	CG2	ILE	A	309	39.404	13.887	8.350	1.00	11.40
ATOM	1975	CD1	ILE	A	309	36.575	15.084	8.315	1.00	12.70
ATOM	1976	N	LYS	A	310	39.475	10.592	6.485	1.00	15.62
ATOM	1977	CA	LYS	A	310	40.375	9.437	6.752	1.00	17.74
ATOM	1978	C	LYS	A	310	41.289	9.223	5.559	1.00	17.22
ATOM	1979	O	LYS	A	310	42.532	9.061	5.715	1.00	16.87
ATOM	1980	CB	LYS	A	310	39.577	8.149	6.976	1.00	18.35

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ATOM	1981	CG	LYS A	310	39.003	7.953	8.373	1.00	20.85
ATOM	1982	CD	LYS A	310	38.269	6.617	8.432	1.00	22.02
ATOM	1983	CE	LYS A	310	37.584	6.404	9.757	1.00	25.26
ATOM	1984	NZ	LYS A	310	36.808	5.129	9.752	1.00	26.15
ATOM	1985	N	ALA A	311	40.698	9.211	4.370	1.00	15.56
ATOM	1986	CA	ALA A	311	41.466	9.007	3.124	1.00	17.77
ATOM	1987	C	ALA A	311	42.549	10.071	2.990	1.00	17.36
ATOM	1988	O	ALA A	311	43.708	9.768	2.578	1.00	20.71
ATOM	1989	CB	ALA A	311	40.524	9.047	1.908	1.00	14.11
ATOM	1990	N	ALA A	312	42.210	11.309	3.330	1.00	16.63
ATOM	1991	CA	ALA A	312	43.184	12.418	3.235	1.00	15.73
ATOM	1992	C	ALA A	312	44.247	12.342	4.333	1.00	15.59
ATOM	1993	O	ALA A	312	45.348	12.958	4.207	1.00	13.09
ATOM	1994	CB	ALA A	312	42.449	13.758	3.301	1.00	13.50
ATOM	1995	N	SER A	313	43.950	11.593	5.393	1.00	17.05
ATOM	1996	CA	SER A	313	44.867	11.432	6.560	1.00	19.05
ATOM	1997	C	SER A	313	45.579	10.085	6.593	1.00	19.49
ATOM	1998	O	SER A	313	46.332	9.787	7.568	1.00	21.95
ATOM	1999	CB	SER A	313	44.075	11.555	7.865	1.00	17.23
ATOM	2000	OG	SER A	313	43.501	12.834	8.003	1.00	23.58
ATOM	2001	N	SER A	314	45.368	9.270	5.570	1.00	20.76
ATOM	2002	CA	SER A	314	45.952	7.909	5.513	1.00	22.73
ATOM	2003	C	SER A	314	47.436	7.725	5.838	1.00	21.90
ATOM	2004	O	SER A	314	47.825	6.639	6.359	1.00	20.76
ATOM	2005	CB	SER A	314	45.650	7.271	4.150	1.00	22.50
ATOM	2006	OG	SER A	314	46.207	8.032	3.093	1.00	27.94
ATOM	2007	N	THR A	315	48.285	8.714	5.570	1.00	20.90
ATOM	2008	CA	THR A	315	49.732	8.523	5.868	1.00	23.78
ATOM	2009	C	THR A	315	50.020	8.454	7.361	1.00	25.42
ATOM	2010	O	THR A	315	51.191	8.219	7.784	1.00	26.24
ATOM	2011	CB	THR A	315	50.616	9.634	5.257	1.00	23.59
ATOM	2012	OG1	THR A	315	50.256	10.901	5.818	1.00	22.73
ATOM	2013	CG2	THR A	315	50.456	9.668	3.745	1.00	22.59
ATOM	2014	N	GLU A	316	48.994	8.655	8.176	1.00	27.46
ATOM	2015	CA	GLU A	316	49.170	8.589	9.638	1.00	29.81
ATOM	2016	C	GLU A	316	48.258	7.503	10.201	1.00	30.55
ATOM	2017	O	GLU A	316	47.110	7.314	9.710	1.00	29.51
ATOM	2018	CB	GLU A	316	48.819	9.931	10.279	1.00	32.51
ATOM	2019	CG	GLU A	316	49.277	10.039	11.725	1.00	36.72
ATOM	2020	CD	GLU A	316	50.571	10.818	11.879	1.00	36.99
ATOM	2021	OE1	GLU A	316	51.456	10.728	11.003	1.00	37.39
ATOM	2022	OE2	GLU A	316	50.704	11.522	12.893	1.00	41.14
ATOM	2023	N	LYS A	317	48.736	6.775	11.205	1.00	32.69
ATOM	2024	CA	LYS A	317	47.928	5.702	11.828	1.00	35.09
ATOM	2025	C	LYS A	317	47.216	6.223	13.071	1.00	33.44
ATOM	2026	O	LYS A	317	47.804	7.005	13.883	1.00	34.13
ATOM	2027	CB	LYS A	317	48.809	4.505	12.202	1.00	38.52
ATOM	2028	CG	LYS A	317	49.980	4.844	13.106	1.00	43.41
ATOM	2029	CD	LYS A	317	50.665	3.588	13.638	1.00	46.99
ATOM	2030	CE	LYS A	317	51.165	2.686	12.514	1.00	48.65
ATOM	2031	NZ	LYS A	317	51.731	1.410	13.043	1.00	49.49
ATOM	2032	N	PHE A	318	45.965	5.818	13.245	1.00	31.00
ATOM	2033	CA	PHE A	318	45.188	6.272	14.408	1.00	30.33
ATOM	2034	C	PHE A	318	44.683	5.120	15.263	1.00	30.57
ATOM	2035	O	PHE A	318	44.171	4.088	14.732	1.00	29.80
ATOM	2036	CB	PHE A	318	44.014	7.135	13.944	1.00	28.83
ATOM	2037	CG	PHE A	318	44.436	8.367	13.197	1.00	28.31
ATOM	2038	CD1	PHE A	318	44.625	8.333	11.817	1.00	27.09
ATOM	2039	CD2	PHE A	318	44.686	9.554	13.879	1.00	27.59
ATOM	2040	CE1	PHE A	318	45.060	9.466	11.130	1.00	27.37
ATOM	2041	CE2	PHE A	318	45.122	10.691	13.200	1.00	26.98
ATOM	2042	CZ	PHE A	318	45.309	10.648	11.826	1.00	27.12

FIG. 1GG

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ATOM	2043	N	PRO A	319	44.805	5.252	16.591	1.00	30.02
ATOM	2044	CA	PRO A	319	44.361	4.222	17.535	1.00	30.20
ATOM	2045	C	PRO A	319	42.864	3.977	17.460	1.00	29.88
ATOM	2046	O	PRO A	319	42.087	4.882	17.040	1.00	29.27
ATOM	2047	CB	PRO A	319	44.777	4.793	18.890	1.00	30.49
ATOM	2048	CG	PRO A	319	44.667	6.276	18.674	1.00	31.99
ATOM	2049	CD	PRO A	319	45.308	6.437	17.309	1.00	30.77
ATOM	2050	N	ASP A	320	42.449	2.779	17.860	1.00	30.08
ATOM	2051	CA	ASP A	320	41.018	2.389	17.867	1.00	29.79
ATOM	2052	C	ASP A	320	40.183	3.406	18.652	1.00	28.71
ATOM	2053	O	ASP A	320	40.560	3.804	19.804	1.00	27.90
ATOM	2054	CB	ASP A	320	40.855	1.009	18.520	1.00	31.81
ATOM	2055	CG	ASP A	320	41.545	-0.104	17.740	1.00	34.27
ATOM	2056	OD1	ASP A	320	41.787	-1.182	18.331	1.00	34.13
ATOM	2057	OD2	ASP A	320	41.833	0.092	16.538	1.00	35.41
ATOM	2058	N	GLY A	321	39.067	3.837	18.068	1.00	26.34
ATOM	2059	CA	GLY A	321	38.193	4.781	18.745	1.00	24.91
ATOM	2060	C	GLY A	321	38.439	6.259	18.490	1.00	23.96
ATOM	2061	O	GLY A	321	37.632	7.129	18.941	1.00	23.66
ATOM	2062	N	PHE A	322	39.519	6.591	17.793	1.00	22.07
ATOM	2063	CA	PHE A	322	39.810	8.011	17.507	1.00	20.41
ATOM	2064	C	PHE A	322	38.705	8.670	16.684	1.00	20.53
ATOM	2065	O	PHE A	322	38.157	9.743	17.078	1.00	20.75
ATOM	2066	CB	PHE A	322	41.126	8.157	16.747	1.00	19.07
ATOM	2067	CG	PHE A	322	41.405	9.567	16.306	1.00	19.05
ATOM	2068	CD1	PHE A	322	41.701	10.555	17.240	1.00	17.04
ATOM	2069	CD2	PHE A	322	41.326	9.918	14.960	1.00	17.20
ATOM	2070	CE1	PHE A	322	41.912	11.872	16.840	1.00	18.99
ATOM	2071	CE2	PHE A	322	41.535	11.229	14.552	1.00	17.99
ATOM	2072	CZ	PHE A	322	41.829	12.210	15.494	1.00	16.28
ATOM	2073	N	TRP A	323	38.367	8.063	15.552	1.00	20.75
ATOM	2074	CA	TRP A	323	37.330	8.622	14.664	1.00	22.37
ATOM	2075	C	TRP A	323	35.940	8.626	15.273	1.00	23.50
ATOM	2076	O	TRP A	323	35.036	9.379	14.804	1.00	22.84
ATOM	2077	CB	TRP A	323	37.322	7.872	13.335	1.00	21.45
ATOM	2078	CG	TRP A	323	38.643	7.924	12.664	1.00	20.71
ATOM	2079	CD1	TRP A	323	39.566	6.921	12.594	1.00	20.50
ATOM	2080	CD2	TRP A	323	39.217	9.049	11.986	1.00	20.31
ATOM	2081	NE1	TRP A	323	40.679	7.349	11.913	1.00	20.18
ATOM	2082	CE2	TRP A	323	40.492	8.651	11.527	1.00	20.95
ATOM	2083	CE3	TRP A	323	38.778	10.354	11.722	1.00	20.80
ATOM	2084	CZ2	TRP A	323	41.337	9.511	10.816	1.00	20.49
ATOM	2085	CZ3	TRP A	323	39.618	11.212	11.013	1.00	21.58
ATOM	2086	CH2	TRP A	323	40.885	10.784	10.569	1.00	21.15
ATOM	2087	N	LEU A	324	35.734	7.810	16.300	1.00	26.13
ATOM	2088	CA	LEU A	324	34.428	7.772	16.983	1.00	27.96
ATOM	2089	C	LEU A	324	34.417	8.877	18.040	1.00	29.09
ATOM	2090	O	LEU A	324	33.413	9.044	18.799	1.00	29.23
ATOM	2091	CB	LEU A	324	34.202	6.408	17.642	1.00	29.11
ATOM	2092	CG	LEU A	324	33.910	5.236	16.697	1.00	30.04
ATOM	2093	CD1	LEU A	324	33.791	3.948	17.501	1.00	30.31
ATOM	2094	CD2	LEU A	324	32.625	5.499	15.924	1.00	29.47
ATOM	2095	N	GLY A	325	35.513	9.634	18.098	1.00	29.34
ATOM	2096	CA	GLY A	325	35.632	10.728	19.048	1.00	30.68
ATOM	2097	C	GLY A	325	35.794	10.280	20.489	1.00	31.19
ATOM	2098	O	GLY A	325	35.687	11.109	21.442	1.00	31.53
ATOM	2099	N	GLU A	326	36.067	8.995	20.683	1.00	32.22
ATOM	2100	CA	GLU A	326	36.225	8.436	22.042	1.00	34.09
ATOM	2101	C	GLU A	326	37.655	8.482	22.563	1.00	33.56
ATOM	2102	O	GLU A	326	37.907	8.933	23.720	1.00	34.19
ATOM	2103	CB	GLU A	326	35.728	6.992	22.062	1.00	35.56
ATOM	2104	CG	GLU A	326	34.267	6.847	21.683	1.00	38.03

FIG. 1HH

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ATOM	2105	CD	GLU A	326	33.855	5.401	21.494	1.00	40.36
ATOM	2106	OE1	GLU A	326	32.662	5.162	21.207	1.00	41.84
ATOM	2107	OE2	GLU A	326	34.720	4.506	21.626	1.00	42.10
ATOM	2108	N	GLN A	327	38.602	8.031	21.750	1.00	32.81
ATOM	2109	CA	GLN A	327	40.009	8.017	22.178	1.00	31.36
ATOM	2110	C	GLN A	327	40.844	9.142	21.608	1.00	30.14
ATOM	2111	O	GLN A	327	40.612	9.626	20.458	1.00	28.97
ATOM	2112	CB	GLN A	327	40.650	6.667	21.842	1.00	34.41
ATOM	2113	CG	GLN A	327	40.770	5.749	23.060	1.00	38.96
ATOM	2114	CD	GLN A	327	39.443	5.546	23.778	1.00	40.61
ATOM	2115	OE1	GLN A	327	39.410	5.223	25.002	1.00	42.73
ATOM	2116	NE2	GLN A	327	38.344	5.714	23.053	1.00	42.75
ATOM	2117	N	LEU A	328	41.814	9.581	22.394	1.00	28.01
ATOM	2118	CA	LEU A	328	42.695	10.663	21.964	1.00	28.64
ATOM	2119	C	LEU A	328	43.889	10.100	21.219	1.00	27.50
ATOM	2120	O	LEU A	328	44.207	8.873	21.317	1.00	27.23
ATOM	2121	CB	LEU A	328	43.177	11.467	23.180	1.00	29.39
ATOM	2122	CG	LEU A	328	43.924	10.735	24.304	1.00	31.09
ATOM	2123	CD1	LEU A	328	45.298	10.283	23.831	1.00	31.75
ATOM	2124	CD2	LEU A	328	44.074	11.669	25.498	1.00	31.12
ATOM	2125	N	VAL A	329	44.539	10.961	20.449	1.00	25.26
ATOM	2126	CA	VAL A	329	45.748	10.583	19.722	1.00	23.64
ATOM	2127	C	VAL A	329	46.779	11.593	20.203	1.00	23.76
ATOM	2128	O	VAL A	329	46.431	12.786	20.476	1.00	21.96
ATOM	2129	CB	VAL A	329	45.560	10.675	18.194	1.00	23.82
ATOM	2130	CG1	VAL A	329	45.100	12.070	17.794	1.00	23.64
ATOM	2131	CG2	VAL A	329	46.866	10.317	17.501	1.00	23.70
ATOM	2132	N	CYS A	330	48.025	11.157	20.344	1.00	23.69
ATOM	2133	CA	CYS A	330	49.088	12.046	20.830	1.00	24.17
ATOM	2134	C	CYS A	330	50.315	12.060	19.937	1.00	23.87
ATOM	2135	O	CYS A	330	50.592	11.089	19.165	1.00	24.32
ATOM	2136	CB	CYS A	330	49.548	11.633	22.228	1.00	24.93
ATOM	2137	SG	CYS A	330	48.353	11.638	23.608	1.00	29.07
ATOM	2138	N	TRP A	331	51.069	13.144	20.047	1.00	22.66
ATOM	2139	CA	TRP A	331	52.306	13.318	19.281	1.00	22.40
ATOM	2140	C	TRP A	331	53.333	13.972	20.177	1.00	22.22
ATOM	2141	O	TRP A	331	52.979	14.698	21.154	1.00	21.57
ATOM	2142	CB	TRP A	331	52.069	14.207	18.064	1.00	21.16
ATOM	2143	CG	TRP A	331	51.345	13.524	16.959	1.00	19.61
ATOM	2144	CD1	TRP A	331	51.868	12.634	16.067	1.00	18.33
ATOM	2145	CD2	TRP A	331	49.966	13.684	16.606	1.00	18.42
ATOM	2146	NE1	TRP A	331	50.902	12.233	15.177	1.00	17.37
ATOM	2147	CE2	TRP A	331	49.721	12.862	15.488	1.00	18.60
ATOM	2148	CE3	TRP A	331	48.911	14.446	17.130	1.00	19.20
ATOM	2149	CZ2	TRP A	331	48.467	12.778	14.874	1.00	17.86
ATOM	2150	CZ3	TRP A	331	47.659	14.364	16.521	1.00	19.94
ATOM	2151	CH2	TRP A	331	47.450	13.535	15.406	1.00	19.08
ATOM	2152	N	GLN A	332	54.598	13.730	19.873	1.00	23.04
ATOM	2153	CA	GLN A	332	55.689	14.321	20.648	1.00	25.14
ATOM	2154	C	GLN A	332	55.490	15.836	20.594	1.00	23.64
ATOM	2155	O	GLN A	332	55.066	16.397	19.533	1.00	23.11
ATOM	2156	CB	GLN A	332	57.020	13.937	20.015	1.00	27.80
ATOM	2157	CG	GLN A	332	58.171	13.877	20.982	1.00	33.30
ATOM	2158	CD	GLN A	332	59.450	13.445	20.305	1.00	35.55
ATOM	2159	OE1	GLN A	332	60.060	14.224	19.507	1.00	36.94
ATOM	2160	NE2	GLN A	332	59.879	12.217	20.579	1.00	36.57
ATOM	2161	N	ALA A	333	55.778	16.506	21.704	1.00	22.79
ATOM	2162	CA	ALA A	333	55.618	17.977	21.820	1.00	21.04
ATOM	2163	C	ALA A	333	55.936	18.759	20.552	1.00	19.77
ATOM	2164	O	ALA A	333	57.076	18.671	19.997	1.00	19.85
ATOM	2165	CB	ALA A	333	56.475	18.499	22.971	1.00	21.00
ATOM	2166	N	GLY A	334	54.949	19.515	20.083	1.00	17.64

FIG. III

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ATOM	2167	CA	GLY A	334	55.123	20.340	18.903	1.00	16.89
ATOM	2168	C	GLY A	334	55.205	19.663	17.548	1.00	17.61
ATOM	2169	O	GLY A	334	55.403	20.370	16.512	1.00	17.50
ATOM	2170	N	THR A	335	55.060	18.343	17.490	1.00	16.55
ATOM	2171	CA	THR A	335	55.146	17.648	16.182	1.00	17.58
ATOM	2172	C	THR A	335	53.802	17.260	15.557	1.00	16.83
ATOM	2173	O	THR A	335	53.761	16.408	14.618	1.00	17.71
ATOM	2174	CB	THR A	335	56.017	16.377	16.275	1.00	17.76
ATOM	2175	OG1	THR A	335	55.361	15.401	17.095	1.00	17.56
ATOM	2176	CG2	THR A	335	57.373	16.710	16.884	1.00	17.23
ATOM	2177	N	THR A	336	52.707	17.842	16.037	1.00	16.75
ATOM	2178	CA	THR A	336	51.373	17.527	15.460	1.00	16.56
ATOM	2179	C	THR A	336	51.473	17.752	13.952	1.00	16.24
ATOM	2180	O	THR A	336	51.821	18.868	13.487	1.00	16.30
ATOM	2181	CB	THR A	336	50.267	18.437	16.030	1.00	17.05
ATOM	2182	OG1	THR A	336	50.181	18.255	17.451	1.00	17.15
ATOM	2183	CG2	THR A	336	48.917	18.096	15.401	1.00	16.72
ATOM	2184	N	PRO A	337	51.182	16.718	13.157	1.00	15.50
ATOM	2185	CA	PRO A	337	51.254	16.820	11.699	1.00	14.87
ATOM	2186	C	PRO A	337	50.006	17.444	11.082	1.00	14.56
ATOM	2187	O	PRO A	337	49.310	16.800	10.249	1.00	14.49
ATOM	2188	CB	PRO A	337	51.448	15.369	11.281	1.00	15.18
ATOM	2189	CG	PRO A	337	50.520	14.657	12.238	1.00	16.05
ATOM	2190	CD	PRO A	337	50.784	15.359	13.572	1.00	15.54
ATOM	2191	N	TRP A	338	49.713	18.682	11.470	1.00	14.89
ATOM	2192	CA	TRP A	338	48.535	19.415	10.956	1.00	14.85
ATOM	2193	C	TRP A	338	48.339	19.304	9.445	1.00	14.87
ATOM	2194	O	TRP A	338	47.194	19.048	8.966	1.00	17.13
ATOM	2195	CB	TRP A	338	48.639	20.899	11.313	1.00	13.77
ATOM	2196	CG	TRP A	338	48.784	21.176	12.767	1.00	15.11
ATOM	2197	CD1	TRP A	338	49.897	21.652	13.411	1.00	14.78
ATOM	2198	CD2	TRP A	338	47.780	21.011	13.771	1.00	14.17
ATOM	2199	NE1	TRP A	338	49.641	21.794	14.756	1.00	14.64
ATOM	2200	CE2	TRP A	338	48.348	21.407	15.003	1.00	14.35
ATOM	2201	CE3	TRP A	338	46.451	20.566	13.751	1.00	14.31
ATOM	2202	CZ2	TRP A	338	47.635	21.371	16.202	1.00	14.86
ATOM	2203	CZ3	TRP A	338	45.744	20.530	14.945	1.00	16.02
ATOM	2204	CH2	TRP A	338	46.339	20.932	16.154	1.00	14.77
ATOM	2205	N	ASN A	339	49.414	19.486	8.682	1.00	13.22
ATOM	2206	CA	ASN A	339	49.319	19.449	7.203	1.00	12.87
ATOM	2207	C	ASN A	339	48.674	18.208	6.608	1.00	12.01
ATOM	2208	O	ASN A	339	48.061	18.288	5.508	1.00	13.99
ATOM	2209	CB	ASN A	339	50.699	19.649	6.552	1.00	12.61
ATOM	2210	CG	ASN A	339	51.576	18.404	6.627	1.00	15.28
ATOM	2211	OD1	ASN A	339	52.290	18.174	7.648	1.00	16.29
ATOM	2212	ND2	ASN A	339	51.541	17.584	5.578	1.00	12.93
ATOM	2213	N	ILE A	340	48.774	17.064	7.276	1.00	12.88
ATOM	2214	CA	ILE A	340	48.171	15.831	6.698	1.00	12.98
ATOM	2215	C	ILE A	340	46.655	15.864	6.794	1.00	12.80
ATOM	2216	O	ILE A	340	45.944	15.237	5.959	1.00	12.80
ATOM	2217	CB	ILE A	340	48.667	14.545	7.400	1.00	14.79
ATOM	2218	CG1	ILE A	340	48.142	14.512	8.833	1.00	14.91
ATOM	2219	CG2	ILE A	340	50.194	14.483	7.372	1.00	12.38
ATOM	2220	CD1	ILE A	340	48.177	13.142	9.454	1.00	17.42
ATOM	2221	N	PHE A	341	46.138	16.577	7.790	1.00	13.19
ATOM	2222	CA	PHE A	341	44.677	16.689	7.972	1.00	13.87
ATOM	2223	C	PHE A	341	44.143	17.741	7.006	1.00	13.37
ATOM	2224	O	PHE A	341	44.787	18.812	6.798	1.00	12.72
ATOM	2225	CB	PHE A	341	44.354	17.087	9.410	1.00	13.10
ATOM	2226	CG	PHE A	341	44.685	16.027	10.429	1.00	13.55
ATOM	2227	CD1	PHE A	341	43.817	14.960	10.654	1.00	13.48
ATOM	2228	CD2	PHE A	341	45.861	16.104	11.171	1.00	12.12

FIG. 1JJ

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ATOM	2229	CE1	PHE	A	341	44.115	13.984	11.607	1.00	13.44
ATOM	2230	CE2	PHE	A	341	46.172	15.136	12.127	1.00	14.31
ATOM	2231	CZ	PHE	A	341	45.298	14.074	12.346	1.00	13.92
ATOM	2232	N	PRO	A	342	42.975	17.484	6.402	1.00	12.78
ATOM	2233	CA	PRO	A	342	42.357	18.413	5.448	1.00	12.17
ATOM	2234	C	PRO	A	342	41.565	19.544	6.100	1.00	12.90
ATOM	2235	O	PRO	A	342	41.168	19.465	7.309	1.00	12.52
ATOM	2236	CB	PRO	A	342	41.447	17.502	4.638	1.00	10.18
ATOM	2237	CG	PRO	A	342	40.920	16.570	5.714	1.00	11.48
ATOM	2238	CD	PRO	A	342	42.180	16.244	6.523	1.00	12.10
ATOM	2239	N	VAL	A	343	41.342	20.609	5.342	1.00	12.27
ATOM	2240	CA	VAL	A	343	40.528	21.712	5.851	1.00	10.51
ATOM	2241	C	VAL	A	343	39.101	21.281	5.521	1.00	12.41
ATOM	2242	O	VAL	A	343	38.878	20.401	4.632	1.00	10.45
ATOM	2243	CB	VAL	A	343	40.838	23.054	5.143	1.00	10.23
ATOM	2244	CG1	VAL	A	343	42.247	23.507	5.488	1.00	8.58
ATOM	2245	CG2	VAL	A	343	40.672	22.914	3.636	1.00	8.08
ATOM	2246	N	ILE	A	344	38.132	21.848	6.224	1.00	13.49
ATOM	2247	CA	ILE	A	344	36.725	21.507	5.991	1.00	13.17
ATOM	2248	C	ILE	A	344	35.989	22.789	5.664	1.00	13.33
ATOM	2249	O	ILE	A	344	36.067	23.795	6.427	1.00	13.12
ATOM	2250	CB	ILE	A	344	36.099	20.859	7.246	1.00	14.77
ATOM	2251	CG1	ILE	A	344	36.776	19.512	7.517	1.00	14.50
ATOM	2252	CG2	ILE	A	344	34.585	20.702	7.060	1.00	13.14
ATOM	2253	CD1	ILE	A	344	36.374	18.875	8.825	1.00	17.73
ATOM	2254	N	SER	A	345	35.292	22.794	4.537	1.00	12.41
ATOM	2255	CA	SER	A	345	34.547	23.982	4.136	1.00	13.41
ATOM	2256	C	SER	A	345	33.051	23.723	4.172	1.00	14.94
ATOM	2257	O	SER	A	345	32.555	22.641	3.721	1.00	14.55
ATOM	2258	CB	SER	A	345	34.967	24.430	2.728	1.00	14.23
ATOM	2259	OG	SER	A	345	36.329	24.834	2.703	1.00	13.57
ATOM	2260	N	LEU	A	346	32.320	24.682	4.725	1.00	13.42
ATOM	2261	CA	LEU	A	346	30.859	24.594	4.796	1.00	14.08
ATOM	2262	C	LEU	A	346	30.320	25.772	4.003	1.00	13.86
ATOM	2263	O	LEU	A	346	30.681	26.956	4.286	1.00	13.52
ATOM	2264	CB	LEU	A	346	30.383	24.674	6.252	1.00	15.83
ATOM	2265	CG	LEU	A	346	30.239	23.372	7.051	1.00	17.74
ATOM	2266	CD1	LEU	A	346	31.455	22.492	6.875	1.00	18.92
ATOM	2267	CD2	LEU	A	346	30.028	23.711	8.521	1.00	19.69
ATOM	2268	N	TYR	A	347	29.496	25.485	3.000	1.00	13.48
ATOM	2269	CA	TYR	A	347	28.894	26.543	2.176	1.00	13.76
ATOM	2270	C	TYR	A	347	27.525	26.864	2.745	1.00	14.58
ATOM	2271	O	TYR	A	347	26.676	25.948	2.979	1.00	13.16
ATOM	2272	CB	TYR	A	347	28.757	26.101	0.716	1.00	14.82
ATOM	2273	CG	TYR	A	347	30.066	26.051	-0.034	1.00	15.10
ATOM	2274	CD1	TYR	A	347	31.022	25.074	0.252	1.00	13.97
ATOM	2275	CD2	TYR	A	347	30.349	26.977	-1.038	1.00	13.98
ATOM	2276	CE1	TYR	A	347	32.228	25.018	-0.447	1.00	14.47
ATOM	2277	CE2	TYR	A	347	31.556	26.930	-1.746	1.00	15.69
ATOM	2278	CZ	TYR	A	347	32.487	25.949	-1.445	1.00	15.09
ATOM	2279	OH	TYR	A	347	33.672	25.895	-2.141	1.00	16.72
ATOM	2280	N	LEU	A	348	27.288	28.145	2.971	1.00	13.86
ATOM	2281	CA	LEU	A	348	26.018	28.593	3.545	1.00	16.70
ATOM	2282	C	LEU	A	348	25.246	29.445	2.559	1.00	17.37
ATOM	2283	O	LEU	A	348	25.856	30.183	1.722	1.00	16.05
ATOM	2284	CB	LEU	A	348	26.292	29.401	4.814	1.00	15.57
ATOM	2285	CG	LEU	A	348	27.019	28.620	5.908	1.00	17.10
ATOM	2286	CD1	LEU	A	348	27.518	29.565	6.985	1.00	15.71
ATOM	2287	CD2	LEU	A	348	26.078	27.580	6.495	1.00	16.92
ATOM	2288	N	MET	A	349	23.922	29.352	2.617	1.00	19.68
ATOM	2289	CA	MET	A	349	23.073	30.167	1.734	1.00	22.78
ATOM	2290	C	MET	A	349	23.384	31.629	2.024	1.00	22.03

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ATOM	2291	O	MET	A	349	23.478	32.049	3.222	1.00	20.70
ATOM	2292	CB	MET	A	349	21.594	29.897	2.008	1.00	25.40
ATOM	2293	CG	MET	A	349	20.931	28.954	1.012	1.00	31.18
ATOM	2294	SD	MET	A	349	19.139	28.833	1.272	1.00	37.43
ATOM	2295	CE	MET	A	349	18.697	30.583	1.318	1.00	32.73
ATOM	2296	N	GLY	A	350	23.573	32.414	0.972	1.00	20.81
ATOM	2297	CA	GLY	A	350	23.857	33.824	1.167	1.00	23.50
ATOM	2298	C	GLY	A	350	22.565	34.612	1.280	1.00	24.26
ATOM	2299	O	GLY	A	350	21.450	34.042	1.091	1.00	23.13
ATOM	2300	N	GLU	A	351	22.662	35.899	1.591	1.00	27.25
ATOM	2301	CA	GLU	A	351	21.448	36.734	1.698	1.00	32.00
ATOM	2302	C	GLU	A	351	20.870	36.948	0.306	1.00	33.92
ATOM	2303	O	GLU	A	351	19.620	37.066	0.125	1.00	34.42
ATOM	2304	CB	GLU	A	351	21.774	38.081	2.340	1.00	32.31
ATOM	2305	CG	GLU	A	351	22.012	37.996	3.831	1.00	34.92
ATOM	2306	CD	GLU	A	351	21.916	39.346	4.503	1.00	35.55
ATOM	2307	OE1	GLU	A	351	22.819	40.187	4.293	1.00	36.64
ATOM	2308	OE2	GLU	A	351	20.927	39.567	5.233	1.00	36.29
ATOM	2309	N	VAL	A	352	21.753	37.007	-0.684	1.00	36.98
ATOM	2310	CA	VAL	A	352	21.327	37.181	-2.082	1.00	38.72
ATOM	2311	C	VAL	A	352	20.944	35.809	-2.629	1.00	40.47
ATOM	2312	O	VAL	A	352	21.689	34.799	-2.426	1.00	39.68
ATOM	2313	CB	VAL	A	352	22.456	37.767	-2.939	1.00	38.31
ATOM	2314	CG1	VAL	A	352	21.999	37.892	-4.382	1.00	38.33
ATOM	2315	CG2	VAL	A	352	22.866	39.123	-2.391	1.00	37.93
ATOM	2316	N	THR	A	353	19.806	35.747	-3.314	1.00	42.33
ATOM	2317	CA	THR	A	353	19.300	34.476	-3.882	1.00	43.97
ATOM	2318	C	THR	A	353	20.254	33.832	-4.877	1.00	43.18
ATOM	2319	O	THR	A	353	20.941	34.536	-5.688	1.00	42.65
ATOM	2320	CB	THR	A	353	17.929	34.672	-4.578	1.00	45.29
ATOM	2321	OG1	THR	A	353	18.018	35.743	-5.526	1.00	46.63
ATOM	2322	CG2	THR	A	353	16.849	34.988	-3.551	1.00	46.31
ATOM	2323	N	ASN	A	354	20.307	32.507	-4.839	1.00	42.20
ATOM	2324	CA	ASN	A	354	21.183	31.741	-5.742	1.00	43.39
ATOM	2325	C	ASN	A	354	22.641	32.166	-5.611	1.00	41.22
ATOM	2326	O	ASN	A	354	23.444	32.078	-6.584	1.00	43.04
ATOM	2327	CB	ASN	A	354	20.698	31.887	-7.187	1.00	45.64
ATOM	2328	CG	ASN	A	354	19.467	31.036	-7.474	1.00	47.44
ATOM	2329	OD1	ASN	A	354	18.824	31.163	-8.562	1.00	48.61
ATOM	2330	ND2	ASN	A	354	19.121	30.159	-6.534	1.00	47.73
ATOM	2331	N	GLN	A	355	22.999	32.621	-4.419	1.00	37.62
ATOM	2332	CA	GLN	A	355	24.371	33.042	-4.128	1.00	34.85
ATOM	2333	C	GLN	A	355	24.737	32.475	-2.764	1.00	32.57
ATOM	2334	O	GLN	A	355	23.863	32.388	-1.846	1.00	31.25
ATOM	2335	CB	GLN	A	355	24.459	34.563	-4.105	1.00	35.77
ATOM	2336	CG	GLN	A	355	25.834	35.089	-3.797	1.00	38.04
ATOM	2337	CD	GLN	A	355	25.909	36.590	-3.915	1.00	39.05
ATOM	2338	OE1	GLN	A	355	25.586	37.171	-4.992	1.00	40.57
ATOM	2339	NE2	GLN	A	355	26.331	37.249	-2.844	1.00	39.68
ATOM	2340	N	SER	A	356	25.989	32.071	-2.597	1.00	29.33
ATOM	2341	CA	SER	A	356	26.419	31.514	-1.304	1.00	25.60
ATOM	2342	C	SER	A	356	27.850	31.897	-0.981	1.00	22.66
ATOM	2343	O	SER	A	356	28.580	32.481	-1.833	1.00	21.99
ATOM	2344	CB	SER	A	356	26.313	29.991	-1.318	1.00	25.71
ATOM	2345	OG	SER	A	356	27.449	29.425	-1.945	1.00	24.59
ATOM	2346	N	PHE	A	357	28.267	31.583	0.239	1.00	20.53
ATOM	2347	CA	PHE	A	357	29.639	31.865	0.676	1.00	17.95
ATOM	2348	C	PHE	A	357	30.104	30.643	1.437	1.00	17.15
ATOM	2349	O	PHE	A	357	29.279	29.750	1.784	1.00	17.21
ATOM	2350	CB	PHE	A	357	29.687	33.126	1.550	1.00	17.62
ATOM	2351	CG	PHE	A	357	28.926	33.017	2.850	1.00	17.61
ATOM	2352	CD1	PHE	A	357	29.571	32.625	4.018	1.00	15.09

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ATOM	2353	CD2	PHE	A	357	27.577	33.357	2.912	1.00	16.90
ATOM	2354	CE1	PHE	A	357	28.887	32.577	5.229	1.00	14.87
ATOM	2355	CE2	PHE	A	357	26.881	33.312	4.120	1.00	15.64
ATOM	2356	CZ	PHE	A	357	27.538	32.924	5.280	1.00	16.14
ATOM	2357	N	ARG	A	358	31.397	30.545	1.687	1.00	16.29
ATOM	2358	CA	ARG	A	358	31.891	29.383	2.412	1.00	14.04
ATOM	2359	C	ARG	A	358	32.642	29.755	3.664	1.00	14.59
ATOM	2360	O	ARG	A	358	33.237	30.869	3.785	1.00	13.01
ATOM	2361	CB	ARG	A	358	32.784	28.525	1.516	1.00	14.11
ATOM	2362	CG	ARG	A	358	34.084	29.172	1.102	1.00	13.28
ATOM	2363	CD	ARG	A	358	34.809	28.275	0.121	1.00	13.06
ATOM	2364	NE	ARG	A	358	36.090	28.831	-0.291	1.00	14.39
ATOM	2365	CZ	ARG	A	358	36.723	28.489	-1.409	1.00	14.92
ATOM	2366	NH1	ARG	A	358	36.188	27.591	-2.232	1.00	13.71
ATOM	2367	NH2	ARG	A	358	37.888	29.045	-1.701	1.00	12.88
ATOM	2368	N	ILE	A	359	32.612	28.819	4.596	1.00	14.51
ATOM	2369	CA	ILE	A	359	33.268	28.935	5.891	1.00	16.36
ATOM	2370	C	ILE	A	359	34.242	27.762	5.913	1.00	15.41
ATOM	2371	O	ILE	A	359	33.836	26.583	5.675	1.00	15.49
ATOM	2372	CB	ILE	A	359	32.197	28.824	7.001	1.00	17.94
ATOM	2373	CG1	ILE	A	359	31.543	30.190	7.198	1.00	19.68
ATOM	2374	CG2	ILE	A	359	32.766	28.260	8.255	1.00	20.12
ATOM	2375	CD1	ILE	A	359	32.515	31.288	7.500	1.00	22.40
ATOM	2376	N	THR	A	360	35.513	28.046	6.162	1.00	13.01
ATOM	2377	CA	THR	A	360	36.531	26.983	6.167	1.00	14.32
ATOM	2378	C	THR	A	360	37.307	26.894	7.470	1.00	14.04
ATOM	2379	O	THR	A	360	37.892	27.913	7.938	1.00	13.82
ATOM	2380	CB	THR	A	360	37.536	27.202	5.021	1.00	14.49
ATOM	2381	OG1	THR	A	360	36.828	27.286	3.774	1.00	15.69
ATOM	2382	CG2	THR	A	360	38.532	26.053	4.964	1.00	15.11
ATOM	2383	N	ILE	A	361	37.331	25.709	8.074	1.00	13.79
ATOM	2384	CA	ILE	A	361	38.091	25.524	9.330	1.00	17.36
ATOM	2385	C	ILE	A	361	39.241	24.548	9.122	1.00	16.53
ATOM	2386	O	ILE	A	361	39.237	23.717	8.160	1.00	16.37
ATOM	2387	CB	ILE	A	361	37.208	24.982	10.476	1.00	18.15
ATOM	2388	CG1	ILE	A	361	36.608	23.632	10.077	1.00	18.53
ATOM	2389	CG2	ILE	A	361	36.126	25.999	10.830	1.00	18.95
ATOM	2390	CD1	ILE	A	361	35.899	22.937	11.208	1.00	18.19
ATOM	2391	N	LEU	A	362	40.230	24.614	9.998	1.00	17.82
ATOM	2392	CA	LEU	A	362	41.375	23.710	9.876	1.00	18.92
ATOM	2393	C	LEU	A	362	41.412	22.659	10.983	1.00	17.87
ATOM	2394	O	LEU	A	362	40.533	22.654	11.912	1.00	17.21
ATOM	2395	CB	LEU	A	362	42.675	24.525	9.837	1.00	22.47
ATOM	2396	CG	LEU	A	362	42.686	25.974	10.320	1.00	25.03
ATOM	2397	CD1	LEU	A	362	42.945	25.992	11.802	1.00	28.14
ATOM	2398	CD2	LEU	A	362	43.781	26.751	9.623	1.00	25.06
ATOM	2399	N	PRO	A	363	42.380	21.729	10.910	1.00	16.12
ATOM	2400	CA	PRO	A	363	42.507	20.681	11.925	1.00	14.51
ATOM	2401	C	PRO	A	363	42.628	21.325	13.303	1.00	14.50
ATOM	2402	O	PRO	A	363	42.234	20.710	14.339	1.00	13.48
ATOM	2403	CB	PRO	A	363	43.801	19.971	11.534	1.00	15.57
ATOM	2404	CG	PRO	A	363	43.902	20.202	10.076	1.00	16.87
ATOM	2405	CD	PRO	A	363	43.450	21.616	9.903	1.00	14.60
ATOM	2406	N	GLN	A	364	43.178	22.539	13.337	1.00	12.36
ATOM	2407	CA	GLN	A	364	43.357	23.271	14.608	1.00	13.04
ATOM	2408	C	GLN	A	364	42.014	23.557	15.254	1.00	13.41
ATOM	2409	O	GLN	A	364	41.953	23.895	16.467	1.00	12.73
ATOM	2410	CB	GLN	A	364	44.111	24.585	14.392	1.00	12.04
ATOM	2411	CG	GLN	A	364	45.637	24.449	14.304	1.00	11.85
ATOM	2412	CD	GLN	A	364	46.141	24.079	12.919	1.00	11.11
ATOM	2413	OE1	GLN	A	364	47.372	24.211	12.625	1.00	13.65
ATOM	2414	NE2	GLN	A	364	45.245	23.621	12.056	1.00	8.04

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ATOM	2415	N	GLN A	365	40.939	23.446	14.478	1.00	13.30
ATOM	2416	CA	GLN A	365	39.580	23.657	15.023	1.00	14.36
ATOM	2417	C	GLN A	365	38.873	22.341	15.339	1.00	14.57
ATOM	2418	O	GLN A	365	38.312	22.175	16.457	1.00	16.56
ATOM	2419	CB	GLN A	365	38.691	24.452	14.056	1.00	14.03
ATOM	2420	CG	GLN A	365	38.816	25.962	14.167	1.00	15.23
ATOM	2421	CD	GLN A	365	40.073	26.489	13.515	1.00	15.81
ATOM	2422	OE1	GLN A	365	40.290	26.292	12.282	1.00	15.51
ATOM	2423	NE2	GLN A	365	40.917	27.158	14.295	1.00	15.82
ATOM	2424	N	TYR A	366	38.873	21.392	14.406	1.00	14.93
ATOM	2425	CA	TYR A	366	38.149	20.128	14.673	1.00	15.12
ATOM	2426	C	TYR A	366	38.914	19.053	15.447	1.00	15.66
ATOM	2427	O	TYR A	366	38.378	17.930	15.703	1.00	17.42
ATOM	2428	CB	TYR A	366	37.557	19.567	13.371	1.00	14.28
ATOM	2429	CG	TYR A	366	38.541	19.107	12.322	1.00	13.05
ATOM	2430	CD1	TYR A	366	39.228	17.907	12.467	1.00	13.67
ATOM	2431	CD2	TYR A	366	38.721	19.835	11.145	1.00	13.44
ATOM	2432	CE1	TYR A	366	40.062	17.431	11.463	1.00	12.91
ATOM	2433	CE2	TYR A	366	39.555	19.369	10.128	1.00	12.63
ATOM	2434	CZ	TYR A	366	40.218	18.163	10.294	1.00	13.86
ATOM	2435	OH	TYR A	366	41.008	17.669	9.287	1.00	12.42
ATOM	2436	N	LEU A	367	40.144	19.367	15.835	1.00	16.84
ATOM	2437	CA	LEU A	367	40.966	18.450	16.660	1.00	16.98
ATOM	2438	C	LEU A	367	40.996	19.161	18.017	1.00	17.50
ATOM	2439	O	LEU A	367	41.662	20.224	18.172	1.00	16.40
ATOM	2440	CB	LEU A	367	42.382	18.324	16.088	1.00	17.44
ATOM	2441	CG	LEU A	367	42.764	16.991	15.429	1.00	18.54
ATOM	2442	CD1	LEU A	367	41.681	16.534	14.482	1.00	17.60
ATOM	2443	CD2	LEU A	367	44.091	17.143	14.700	1.00	17.38
ATOM	2444	N	ARG A	368	40.270	18.624	18.990	1.00	17.06
ATOM	2445	CA	ARG A	368	40.192	19.253	20.326	1.00	17.22
ATOM	2446	C	ARG A	368	41.341	18.874	21.243	1.00	16.52
ATOM	2447	O	ARG A	368	41.554	17.662	21.538	1.00	16.19
ATOM	2448	CB	ARG A	368	38.879	18.871	21.009	1.00	16.02
ATOM	2449	CG	ARG A	368	38.050	20.055	21.444	1.00	19.09
ATOM	2450	CD	ARG A	368	37.415	19.811	22.792	1.00	17.88
ATOM	2451	NE	ARG A	368	36.840	18.474	22.906	1.00	17.20
ATOM	2452	CZ	ARG A	368	36.775	17.806	24.053	1.00	18.65
ATOM	2453	NH1	ARG A	368	37.247	18.361	25.164	1.00	18.77
ATOM	2454	NH2	ARG A	368	36.258	16.584	24.095	1.00	17.53
ATOM	2455	N	PRO A	369	42.100	19.867	21.722	1.00	17.88
ATOM	2456	CA	PRO A	369	43.220	19.558	22.615	1.00	19.69
ATOM	2457	C	PRO A	369	42.744	19.067	23.969	1.00	22.16
ATOM	2458	O	PRO A	369	41.786	19.645	24.575	1.00	20.49
ATOM	2459	CB	PRO A	369	43.983	20.883	22.700	1.00	20.03
ATOM	2460	CG	PRO A	369	42.932	21.911	22.429	1.00	19.96
ATOM	2461	CD	PRO A	369	42.122	21.285	21.320	1.00	17.42
ATOM	2462	N	VAL A	370	43.376	18.001	24.444	1.00	23.75
ATOM	2463	CA	VAL A	370	43.040	17.399	25.747	1.00	27.84
ATOM	2464	C	VAL A	370	44.332	16.921	26.394	1.00	30.26
ATOM	2465	O	VAL A	370	45.321	16.577	25.682	1.00	30.79
ATOM	2466	CB	VAL A	370	42.093	16.197	25.577	1.00	26.52
ATOM	2467	CG1	VAL A	370	40.771	16.654	24.989	1.00	26.57
ATOM	2468	CG2	VAL A	370	42.737	15.160	24.669	1.00	26.53
ATOM	2469	N	GLU A	371	44.361	16.891	27.719	1.00	35.50
ATOM	2470	CA	GLU A	371	45.574	16.450	28.426	1.00	40.60
ATOM	2471	C	GLU A	371	45.800	14.963	28.235	1.00	42.42
ATOM	2472	O	GLU A	371	44.832	14.138	28.321	1.00	41.89
ATOM	2473	CB	GLU A	371	45.472	16.758	29.921	1.00	43.12
ATOM	2474	CG	GLU A	371	46.603	17.634	30.443	1.00	47.33
ATOM	2475	CD	GLU A	371	47.954	17.245	29.864	1.00	49.98
ATOM	2476	OE1	GLU A	371	48.264	16.036	29.818	1.00	51.63

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ATOM	2477	OE2	GLU A	371	48.710	18.151	29.456	1.00	51.00
ATOM	2478	N	ASP A	372	47.046	14.596	27.960	1.00	45.77
ATOM	2479	CA	ASP A	372	47.396	13.182	27.774	1.00	49.75
ATOM	2480	C	ASP A	372	46.889	12.468	29.014	1.00	52.41
ATOM	2481	O	ASP A	372	47.090	12.966	30.165	1.00	52.32
ATOM	2482	CB	ASP A	372	48.913	13.015	27.665	1.00	50.28
ATOM	2483	CG	ASP A	372	49.323	11.587	27.333	1.00	51.15
ATOM	2484	OD1	ASP A	372	50.541	11.323	27.246	1.00	51.32
ATOM	2485	OD2	ASP A	372	48.429	10.729	27.156	1.00	50.76
ATOM	2486	N	VAL A	373	46.217	11.340	28.819	1.00	55.35
ATOM	2487	CA	VAL A	373	45.688	10.570	29.956	1.00	58.73
ATOM	2488	C	VAL A	373	46.850	10.213	30.896	1.00	60.04
ATOM	2489	O	VAL A	373	47.465	9.105	30.817	1.00	60.06
ATOM	2490	CB	VAL A	373	44.901	9.313	29.433	1.00	59.43
ATOM	2491	CG1	VAL A	373	45.292	8.044	30.176	1.00	59.64
ATOM	2492	CG2	VAL A	373	43.402	9.556	29.597	1.00	59.89
ATOM	2493	N	ALA A	374	47.187	11.169	31.759	1.00	61.58
ATOM	2494	CA	ALA A	374	48.277	11.020	32.755	1.00	61.52
ATOM	2495	C	ALA A	374	49.709	11.205	32.233	1.00	61.38
ATOM	2496	O	ALA A	374	50.104	10.633	31.169	1.00	60.95
ATOM	2497	CB	ALA A	374	48.155	9.668	33.455	1.00	62.66
ATOM	2498	N	THR A	375	50.477	12.002	32.977	1.00	61.03
ATOM	2499	CA	THR A	375	51.919	12.320	32.715	1.00	60.30
ATOM	2500	C	THR A	375	52.401	12.358	31.269	1.00	58.41
ATOM	2501	O	THR A	375	52.361	11.308	30.555	1.00	59.21
ATOM	2502	CB	THR A	375	52.838	11.327	33.455	1.00	61.35
ATOM	2503	OG1	THR A	375	52.302	11.049	34.756	1.00	62.26
ATOM	2504	CG2	THR A	375	54.237	11.912	33.599	1.00	61.47
ATOM	2505	N	SER A	376	52.892	13.520	30.833	1.00	55.18
ATOM	2506	CA	SER A	376	53.407	13.683	29.445	1.00	51.40
ATOM	2507	C	SER A	376	53.538	15.132	28.981	1.00	48.79
ATOM	2508	O	SER A	376	52.887	16.067	29.540	1.00	48.19
ATOM	2509	CB	SER A	376	52.502	12.943	28.456	1.00	51.90
ATOM	2510	OG	SER A	376	52.880	13.193	27.115	1.00	51.94
ATOM	2511	N	GLN A	377	54.373	15.333	27.968	1.00	44.88
ATOM	2512	CA	GLN A	377	54.576	16.664	27.367	1.00	41.28
ATOM	2513	C	GLN A	377	54.106	16.580	25.923	1.00	37.22
ATOM	2514	O	GLN A	377	54.380	17.489	25.081	1.00	35.23
ATOM	2515	CB	GLN A	377	56.048	17.062	27.425	1.00	43.59
ATOM	2516	CG	GLN A	377	56.468	17.585	28.789	1.00	46.22
ATOM	2517	CD	GLN A	377	57.955	17.831	28.886	1.00	47.12
ATOM	2518	OE1	GLN A	377	58.710	17.710	27.867	1.00	48.44
ATOM	2519	NE2	GLN A	377	58.414	18.177	30.081	1.00	48.23
ATOM	2520	N	ASP A	378	53.399	15.499	25.618	1.00	31.89
ATOM	2521	CA	ASP A	378	52.866	15.289	24.263	1.00	28.31
ATOM	2522	C	ASP A	378	51.663	16.183	24.034	1.00	25.36
ATOM	2523	O	ASP A	378	50.958	16.590	25.004	1.00	22.58
ATOM	2524	CB	ASP A	378	52.422	13.835	24.072	1.00	28.64
ATOM	2525	CG	ASP A	378	53.582	12.867	23.998	1.00	29.19
ATOM	2526	OD1	ASP A	378	54.746	13.316	23.948	1.00	30.91
ATOM	2527	OD2	ASP A	378	53.323	11.647	23.981	1.00	30.50
ATOM	2528	N	ASP A	379	51.415	16.513	22.776	1.00	23.06
ATOM	2529	CA	ASP A	379	50.236	17.317	22.436	1.00	22.51
ATOM	2530	C	ASP A	379	49.220	16.294	21.964	1.00	21.46
ATOM	2531	O	ASP A	379	49.436	15.581	20.945	1.00	19.87
ATOM	2532	CB	ASP A	379	50.570	18.335	21.346	1.00	21.72
ATOM	2533	CG	ASP A	379	51.557	19.377	21.829	1.00	23.29
ATOM	2534	OD1	ASP A	379	51.434	19.786	23.005	1.00	23.00
ATOM	2535	OD2	ASP A	379	52.446	19.789	21.052	1.00	23.50
ATOM	2536	N	CYS A	380	48.128	16.182	22.706	1.00	20.99
ATOM	2537	CA	CYS A	380	47.082	15.201	22.393	1.00	20.40
ATOM	2538	C	CYS A	380	45.769	15.865	22.013	1.00	19.94

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ATOM	2539	O	CYS A 380	45.489	17.038	22.417	1.00	18.77
ATOM	2540	CB	CYS A 380	46.867	14.292	23.596	1.00	23.14
ATOM	2541	SG	CYS A 380	48.368	13.550	24.327	1.00	25.25
ATOM	2542	N	TYR A 381	44.947	15.140	21.255	1.00	18.49
ATOM	2543	CA	TYR A 381	43.656	15.681	20.785	1.00	17.31
ATOM	2544	C	TYR A 381	42.595	14.610	20.602	1.00	17.45
ATOM	2545	O	TYR A 381	42.890	13.376	20.532	1.00	16.46
ATOM	2546	CB	TYR A 381	43.833	16.370	19.427	1.00	15.47
ATOM	2547	CG	TYR A 381	45.034	17.275	19.314	1.00	14.93
ATOM	2548	CD1	TYR A 381	44.899	18.659	19.408	1.00	14.20
ATOM	2549	CD2	TYR A 381	46.311	16.746	19.118	1.00	14.17
ATOM	2550	CE1	TYR A 381	46.009	19.499	19.307	1.00	14.66
ATOM	2551	CE2	TYR A 381	47.431	17.576	19.021	1.00	15.73
ATOM	2552	CZ	TYR A 381	47.272	18.952	19.113	1.00	16.02
ATOM	2553	OH	TYR A 381	48.369	19.785	18.994	1.00	15.32
ATOM	2554	N	LYS A 382	41.356	15.066	20.506	1.00	18.35
ATOM	2555	CA	LYS A 382	40.218	14.174	20.248	1.00	20.26
ATOM	2556	C	LYS A 382	39.555	14.695	18.981	1.00	19.31
ATOM	2557	O	LYS A 382	39.575	15.941	18.704	1.00	19.65
ATOM	2558	CB	LYS A 382	39.221	14.204	21.404	1.00	21.74
ATOM	2559	CG	LYS A 382	39.632	13.348	22.585	1.00	25.42
ATOM	2560	CD	LYS A 382	38.509	13.266	23.602	1.00	27.59
ATOM	2561	CE	LYS A 382	38.878	12.342	24.759	1.00	29.84
ATOM	2562	NZ	LYS A 382	37.779	12.246	25.761	1.00	31.22
ATOM	2563	N	PHE A 383	38.994	13.786	18.192	1.00	18.55
ATOM	2564	CA	PHE A 383	38.298	14.165	16.942	1.00	16.97
ATOM	2565	C	PHE A 383	36.992	14.823	17.375	1.00	16.22
ATOM	2566	O	PHE A 383	36.079	14.138	17.908	1.00	13.73
ATOM	2567	CB	PHE A 383	38.026	12.907	16.110	1.00	16.57
ATOM	2568	CG	PHE A 383	37.447	13.182	14.750	1.00	16.49
ATOM	2569	CD1	PHE A 383	38.052	14.091	13.890	1.00	14.48
ATOM	2570	CD2	PHE A 383	36.319	12.489	14.308	1.00	15.06
ATOM	2571	CE1	PHE A 383	37.542	14.306	12.606	1.00	16.02
ATOM	2572	CE2	PHE A 383	35.807	12.696	13.029	1.00	15.64
ATOM	2573	CZ	PHE A 383	36.419	13.603	12.176	1.00	15.10
ATOM	2574	N	ALA A 384	36.885	16.134	17.173	1.00	16.28
ATOM	2575	CA	ALA A 384	35.675	16.893	17.586	1.00	15.54
ATOM	2576	C	ALA A 384	34.549	16.931	16.559	1.00	15.46
ATOM	2577	O	ALA A 384	33.768	17.931	16.487	1.00	15.60
ATOM	2578	CB	ALA A 384	36.061	18.316	17.987	1.00	14.96
ATOM	2579	N	ILE A 385	34.451	15.888	15.745	1.00	14.66
ATOM	2580	CA	ILE A 385	33.356	15.792	14.763	1.00	13.45
ATOM	2581	C	ILE A 385	32.651	14.487	15.093	1.00	14.39
ATOM	2582	O	ILE A 385	33.303	13.410	15.179	1.00	12.37
ATOM	2583	CB	ILE A 385	33.862	15.724	13.315	1.00	12.54
ATOM	2584	CG1	ILE A 385	34.696	16.959	12.988	1.00	13.08
ATOM	2585	CG2	ILE A 385	32.675	15.655	12.367	1.00	12.56
ATOM	2586	CD1	ILE A 385	35.178	17.003	11.549	1.00	10.74
ATOM	2587	N	SER A 386	31.343	14.543	15.297	1.00	14.95
ATOM	2588	CA	SER A 386	30.605	13.319	15.637	1.00	16.99
ATOM	2589	C	SER A 386	29.275	13.221	14.918	1.00	17.48
ATOM	2590	O	SER A 386	28.795	14.207	14.279	1.00	18.09
ATOM	2591	CB	SER A 386	30.385	13.240	17.151	1.00	16.69
ATOM	2592	OG	SER A 386	29.630	14.345	17.616	1.00	16.81
ATOM	2593	N	GLN A 387	28.673	12.044	15.016	1.00	19.86
ATOM	2594	CA	GLN A 387	27.384	11.748	14.376	1.00	23.09
ATOM	2595	C	GLN A 387	26.209	12.317	15.160	1.00	22.61
ATOM	2596	O	GLN A 387	26.221	12.363	16.427	1.00	22.90
ATOM	2597	CB	GLN A 387	27.222	10.234	14.247	1.00	24.53
ATOM	2598	CG	GLN A 387	26.035	9.795	13.411	1.00	28.94
ATOM	2599	CD	GLN A 387	25.971	8.286	13.272	1.00	30.39
ATOM	2600	OE1	GLN A 387	27.013	7.619	12.999	1.00	31.54

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ATOM	2601	NE2	GLN	A	387	24.782	7.721	13.441	1.00	32.07
ATOM	2602	N	SER	A	388	25.186	12.743	14.434	1.00	21.60
ATOM	2603	CA	SER	A	388	23.981	13.306	15.055	1.00	21.59
ATOM	2604	C	SER	A	388	22.728	12.711	14.429	1.00	22.68
ATOM	2605	O	SER	A	388	22.707	12.380	13.203	1.00	23.08
ATOM	2606	CB	SER	A	388	23.959	14.824	14.871	1.00	19.88
ATOM	2607	OG	SER	A	388	22.661	15.342	15.112	1.00	19.18
ATOM	2608	N	SER	A	389	21.681	12.551	15.227	1.00	23.51
ATOM	2609	CA	SER	A	389	20.405	12.024	14.690	1.00	24.44
ATOM	2610	C	SER	A	389	19.391	13.167	14.708	1.00	23.83
ATOM	2611	O	SER	A	389	18.181	12.973	14.385	1.00	23.81
ATOM	2612	CB	SER	A	389	19.902	10.847	15.534	1.00	25.63
ATOM	2613	OG	SER	A	389	19.681	11.235	16.881	1.00	27.65
ATOM	2614	N	THR	A	390	19.861	14.360	15.066	1.00	22.66
ATOM	2615	CA	THR	A	390	18.984	15.553	15.127	1.00	22.60
ATOM	2616	C	THR	A	390	19.471	16.709	14.260	1.00	21.12
ATOM	2617	O	THR	A	390	19.272	17.910	14.608	1.00	21.35
ATOM	2618	CB	THR	A	390	18.825	16.052	16.577	1.00	23.02
ATOM	2619	OG1	THR	A	390	20.117	16.288	17.150	1.00	24.55
ATOM	2620	CG2	THR	A	390	18.079	15.010	17.413	1.00	23.83
ATOM	2621	N	GLY	A	391	20.093	16.381	13.136	1.00	19.75
ATOM	2622	CA	GLY	A	391	20.573	17.410	12.237	1.00	16.88
ATOM	2623	C	GLY	A	391	21.982	17.891	12.526	1.00	17.24
ATOM	2624	O	GLY	A	391	22.672	17.402	13.472	1.00	16.27
ATOM	2625	N	THR	A	392	22.427	18.851	11.730	1.00	14.99
ATOM	2626	CA	THR	A	392	23.773	19.423	11.880	1.00	14.81
ATOM	2627	C	THR	A	392	23.841	20.514	12.938	1.00	14.47
ATOM	2628	O	THR	A	392	22.949	21.409	13.012	1.00	16.11
ATOM	2629	CB	THR	A	392	24.266	20.062	10.564	1.00	12.95
ATOM	2630	OG1	THR	A	392	24.494	19.043	9.588	1.00	14.51
ATOM	2631	CG2	THR	A	392	25.572	20.839	10.800	1.00	14.09
ATOM	2632	N	VAL	A	393	24.857	20.458	13.779	1.00	13.06
ATOM	2633	CA	VAL	A	393	25.027	21.534	14.746	1.00	15.07
ATOM	2634	C	VAL	A	393	26.462	22.033	14.684	1.00	15.47
ATOM	2635	O	VAL	A	393	27.450	21.265	14.908	1.00	16.85
ATOM	2636	CB	VAL	A	393	24.619	21.128	16.201	1.00	16.35
ATOM	2637	CG1	VAL	A	393	24.559	19.624	16.348	1.00	15.06
ATOM	2638	CG2	VAL	A	393	25.566	21.766	17.210	1.00	13.79
ATOM	2639	N	MET	A	394	26.592	23.298	14.312	1.00	15.41
ATOM	2640	CA	MET	A	394	27.900	23.962	14.231	1.00	16.55
ATOM	2641	C	MET	A	394	28.188	24.442	15.647	1.00	16.43
ATOM	2642	O	MET	A	394	27.737	25.553	16.059	1.00	14.99
ATOM	2643	CB	MET	A	394	27.822	25.143	13.264	1.00	16.88
ATOM	2644	CG	MET	A	394	27.607	24.724	11.818	1.00	21.12
ATOM	2645	SD	MET	A	394	27.178	26.083	10.700	1.00	27.34
ATOM	2646	CE	MET	A	394	25.475	25.768	10.522	1.00	26.22
ATOM	2647	N	GLY	A	395	28.909	23.622	16.406	1.00	16.28
ATOM	2648	CA	GLY	A	395	29.220	23.967	17.780	1.00	15.87
ATOM	2649	C	GLY	A	395	30.487	24.775	17.971	1.00	16.72
ATOM	2650	O	GLY	A	395	31.011	25.408	17.005	1.00	16.25
ATOM	2651	N	ALA	A	396	30.989	24.769	19.202	1.00	17.29
ATOM	2652	CA	ALA	A	396	32.211	25.511	19.586	1.00	19.21
ATOM	2653	C	ALA	A	396	33.383	25.310	18.634	1.00	19.63
ATOM	2654	O	ALA	A	396	34.050	26.303	18.223	1.00	22.56
ATOM	2655	CB	ALA	A	396	32.626	25.128	21.013	1.00	16.95
ATOM	2656	N	VAL	A	397	33.661	24.065	18.269	1.00	21.31
ATOM	2657	CA	VAL	A	397	34.792	23.781	17.353	1.00	23.40
ATOM	2658	C	VAL	A	397	34.690	24.592	16.068	1.00	21.89
ATOM	2659	O	VAL	A	397	35.731	25.029	15.496	1.00	24.15
ATOM	2660	CB	VAL	A	397	34.874	22.274	17.012	1.00	24.19
ATOM	2661	CG1	VAL	A	397	35.065	21.480	18.287	1.00	26.91
ATOM	2662	CG2	VAL	A	397	33.623	21.826	16.290	1.00	25.89

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ATOM	2663	N	ILE A 398	33.472	24.805	15.586	1.00	21.78
ATOM	2664	CA	ILE A 398	33.276	25.612	14.359	1.00	21.50
ATOM	2665	C	ILE A 398	33.403	27.086	14.735	1.00	19.91
ATOM	2666	O	ILE A 398	34.222	27.849	14.135	1.00	16.77
ATOM	2667	CB	ILE A 398	31.872	25.390	13.749	1.00	23.48
ATOM	2668	CG1	ILE A 398	31.859	24.113	12.910	1.00	26.70
ATOM	2669	CG2	ILE A 398	31.469	26.596	12.895	1.00	24.67
ATOM	2670	CD1	ILE A 398	32.656	24.223	11.620	1.00	27.64
ATOM	2671	N	MET A 399	32.614	27.492	15.726	1.00	17.64
ATOM	2672	CA	MET A 399	32.594	28.889	16.201	1.00	16.99
ATOM	2673	C	MET A 399	33.951	29.439	16.640	1.00	17.65
ATOM	2674	O	MET A 399	34.202	30.677	16.517	1.00	18.70
ATOM	2675	CB	MET A 399	31.575	29.025	17.331	1.00	15.33
ATOM	2676	CG	MET A 399	30.138	28.800	16.866	1.00	14.30
ATOM	2677	SD	MET A 399	28.891	29.038	18.155	1.00	16.41
ATOM	2678	CE	MET A 399	28.972	30.826	18.388	1.00	10.15
ATOM	2679	N	GLU A 400	34.835	28.579	17.143	1.00	16.09
ATOM	2680	CA	GLU A 400	36.175	29.051	17.580	1.00	16.46
ATOM	2681	C	GLU A 400	36.968	29.576	16.389	1.00	14.50
ATOM	2682	O	GLU A 400	37.971	30.332	16.553	1.00	14.83
ATOM	2683	CB	GLU A 400	36.957	27.919	18.257	1.00	15.95
ATOM	2684	CG	GLU A 400	36.318	27.419	19.540	1.00	18.44
ATOM	2685	CD	GLU A 400	37.156	26.376	20.243	1.00	18.72
ATOM	2686	OE1	GLU A 400	37.771	25.542	19.546	1.00	20.29
ATOM	2687	OE2	GLU A 400	37.186	26.383	21.493	1.00	19.60
ATOM	2688	N	GLY A 401	36.544	29.204	15.190	1.00	13.62
ATOM	2689	CA	GLY A 401	37.246	29.662	14.010	1.00	15.09
ATOM	2690	C	GLY A 401	36.747	31.010	13.533	1.00	16.28
ATOM	2691	O	GLY A 401	37.435	31.693	12.716	1.00	16.14
ATOM	2692	N	PHE A 402	35.591	31.438	14.033	1.00	14.90
ATOM	2693	CA	PHE A 402	35.018	32.712	13.572	1.00	15.01
ATOM	2694	C	PHE A 402	34.378	33.605	14.615	1.00	15.52
ATOM	2695	O	PHE A 402	34.078	33.185	15.777	1.00	16.47
ATOM	2696	CB	PHE A 402	33.966	32.424	12.495	1.00	14.48
ATOM	2697	CG	PHE A 402	34.381	31.364	11.522	1.00	15.64
ATOM	2698	CD1	PHE A 402	34.126	30.021	11.785	1.00	14.91
ATOM	2699	CD2	PHE A 402	35.095	31.700	10.376	1.00	15.20
ATOM	2700	CE1	PHE A 402	34.581	29.027	10.920	1.00	15.18
ATOM	2701	CE2	PHE A 402	35.555	30.717	9.507	1.00	15.72
ATOM	2702	CZ	PHE A 402	35.298	29.376	9.782	1.00	15.12
ATOM	2703	N	TYR A 403	34.168	34.847	14.208	1.00	15.73
ATOM	2704	CA	TYR A 403	33.474	35.837	15.039	1.00	15.81
ATOM	2705	C	TYR A 403	32.071	35.641	14.489	1.00	14.48
ATOM	2706	O	TYR A 403	31.846	35.789	13.250	1.00	15.47
ATOM	2707	CB	TYR A 403	33.977	37.251	14.731	1.00	14.45
ATOM	2708	CG	TYR A 403	33.265	38.340	15.499	1.00	15.22
ATOM	2709	CD1	TYR A 403	32.899	38.152	16.834	1.00	14.85
ATOM	2710	CD2	TYR A 403	33.018	39.584	14.916	1.00	14.28
ATOM	2711	CE1	TYR A 403	32.311	39.175	17.569	1.00	15.25
ATOM	2712	CE2	TYR A 403	32.435	40.617	15.644	1.00	14.12
ATOM	2713	CZ	TYR A 403	32.086	40.406	16.967	1.00	15.72
ATOM	2714	OH	TYR A 403	31.525	41.427	17.697	1.00	18.09
ATOM	2715	N	VAL A 404	31.125	35.286	15.345	1.00	14.70
ATOM	2716	CA	VAL A 404	29.753	35.040	14.854	1.00	14.44
ATOM	2717	C	VAL A 404	28.759	36.079	15.342	1.00	14.92
ATOM	2718	O	VAL A 404	28.552	36.259	16.582	1.00	15.62
ATOM	2719	CB	VAL A 404	29.284	33.629	15.260	1.00	14.39
ATOM	2720	CG1	VAL A 404	27.925	33.323	14.640	1.00	11.90
ATOM	2721	CG2	VAL A 404	30.327	32.603	14.819	1.00	12.73
ATOM	2722	N	VAL A 405	28.136	36.762	14.386	1.00	16.06
ATOM	2723	CA	VAL A 405	27.153	37.822	14.676	1.00	14.31
ATOM	2724	C	VAL A 405	25.717	37.312	14.562	1.00	16.79

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ATOM	2725	O	VAL A	405	25.238	36.955	13.443	1.00	16.14
ATOM	2726	CB	VAL A	405	27.318	39.004	13.700	1.00	13.66
ATOM	2727	CG1	VAL A	405	26.302	40.092	14.021	1.00	12.39
ATOM	2728	CG2	VAL A	405	28.739	39.547	13.775	1.00	10.80
ATOM	2729	N	PHE A	406	25.019	37.260	15.691	1.00	16.73
ATOM	2730	CA	PHE A	406	23.616	36.805	15.685	1.00	16.71
ATOM	2731	C	PHE A	406	22.755	38.049	15.531	1.00	17.47
ATOM	2732	O	PHE A	406	22.286	38.654	16.539	1.00	17.39
ATOM	2733	CB	PHE A	406	23.287	36.053	16.979	1.00	13.96
ATOM	2734	CG	PHE A	406	24.061	34.765	17.139	1.00	13.82
ATOM	2735	CD1	PHE A	406	25.398	34.783	17.533	1.00	13.31
ATOM	2736	CD2	PHE A	406	23.464	33.538	16.863	1.00	12.85
ATOM	2737	CE1	PHE A	406	26.128	33.601	17.646	1.00	13.23
ATOM	2738	CE2	PHE A	406	24.185	32.350	16.973	1.00	12.78
ATOM	2739	CZ	PHE A	406	25.522	32.382	17.367	1.00	12.96
ATOM	2740	N	ASP A	407	22.566	38.449	14.278	1.00	18.08
ATOM	2741	CA	ASP A	407	21.785	39.647	13.932	1.00	19.70
ATOM	2742	C	ASP A	407	20.297	39.316	13.927	1.00	19.73
ATOM	2743	O	ASP A	407	19.675	39.120	12.837	1.00	18.96
ATOM	2744	CB	ASP A	407	22.221	40.153	12.552	1.00	22.61
ATOM	2745	CG	ASP A	407	21.663	41.530	12.223	1.00	24.28
ATOM	2746	OD1	ASP A	407	20.660	41.935	12.849	1.00	24.12
ATOM	2747	OD2	ASP A	407	22.225	42.198	11.325	1.00	23.37
ATOM	2748	N	ARG A	408	19.709	39.245	15.116	1.00	19.72
ATOM	2749	CA	ARG A	408	18.269	38.928	15.259	1.00	22.01
ATOM	2750	C	ARG A	408	17.393	39.967	14.557	1.00	21.56
ATOM	2751	O	ARG A	408	16.386	39.606	13.875	1.00	20.49
ATOM	2752	CB	ARG A	408	17.909	38.835	16.748	1.00	23.44
ATOM	2753	CG	ARG A	408	18.670	37.724	17.479	1.00	25.61
ATOM	2754	CD	ARG A	408	18.838	37.994	18.973	1.00	28.14
ATOM	2755	NE	ARG A	408	17.843	37.328	19.814	1.00	31.17
ATOM	2756	CZ	ARG A	408	16.567	37.679	19.887	1.00	32.24
ATOM	2757	NH1	ARG A	408	16.127	38.693	19.163	1.00	35.70
ATOM	2758	NH2	ARG A	408	15.735	37.029	20.687	1.00	31.13
ATOM	2759	N	ALA A	409	17.750	41.241	14.694	1.00	21.10
ATOM	2760	CA	ALA A	409	16.978	42.329	14.056	1.00	22.43
ATOM	2761	C	ALA A	409	16.785	42.050	12.571	1.00	22.80
ATOM	2762	O	ALA A	409	15.646	42.177	12.034	1.00	24.04
ATOM	2763	CB	ALA A	409	17.689	43.664	14.247	1.00	20.85
ATOM	2764	N	ARG A	410	17.858	41.664	11.889	1.00	23.89
ATOM	2765	CA	ARG A	410	17.770	41.374	10.445	1.00	25.07
ATOM	2766	C	ARG A	410	17.639	39.888	10.119	1.00	24.26
ATOM	2767	O	ARG A	410	17.908	39.451	8.956	1.00	24.63
ATOM	2768	CB	ARG A	410	18.987	41.949	9.724	1.00	26.83
ATOM	2769	CG	ARG A	410	19.025	43.464	9.700	1.00	29.89
ATOM	2770	CD	ARG A	410	19.326	43.944	8.295	1.00	32.69
ATOM	2771	NE	ARG A	410	20.590	44.664	8.208	1.00	33.51
ATOM	2772	CZ	ARG A	410	21.182	44.979	7.062	1.00	34.58
ATOM	2773	NH1	ARG A	410	20.626	44.631	5.907	1.00	33.99
ATOM	2774	NH2	ARG A	410	22.328	45.644	7.068	1.00	35.27
ATOM	2775	N	LYS A	411	17.223	39.091	11.097	1.00	22.77
ATOM	2776	CA	LYS A	411	17.061	37.630	10.891	1.00	22.97
ATOM	2777	C	LYS A	411	18.227	37.031	10.104	1.00	21.80
ATOM	2778	O	LYS A	411	18.015	36.309	9.081	1.00	20.39
ATOM	2779	CB	LYS A	411	15.761	37.335	10.138	1.00	23.53
ATOM	2780	CG	LYS A	411	14.491	37.686	10.886	1.00	27.80
ATOM	2781	CD	LYS A	411	13.270	37.188	10.121	1.00	30.25
ATOM	2782	CE	LYS A	411	13.337	35.678	9.890	1.00	31.18
ATOM	2783	NZ	LYS A	411	12.153	35.163	9.142	1.00	34.08
ATOM	2784	N	ARG A	412	19.449	37.290	10.541	1.00	19.85
ATOM	2785	CA	ARG A	412	20.607	36.748	9.815	1.00	18.29
ATOM	2786	C	ARG A	412	21.789	36.505	10.736	1.00	18.54

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ATOM	2787	O	ARG A	412	21.911	37.137	11.837	1.00	18.56
ATOM	2788	CB	ARG A	412	21.019	37.714	8.703	1.00	18.72
ATOM	2789	CG	ARG A	412	21.571	39.027	9.239	1.00	18.66
ATOM	2790	CD	ARG A	412	21.941	39.988	8.127	1.00	18.34
ATOM	2791	NE	ARG A	412	22.560	41.196	8.662	1.00	19.28
ATOM	2792	CZ	ARG A	412	23.082	42.163	7.916	1.00	20.03
ATOM	2793	NH1	ARG A	412	23.059	42.067	6.591	1.00	19.36
ATOM	2794	NH2	ARG A	412	23.635	43.219	8.496	1.00	19.27
ATOM	2795	N	ILE A	413	22.668	35.606	10.317	1.00	17.01
ATOM	2796	CA	ILE A	413	23.865	35.285	11.103	1.00	16.43
ATOM	2797	C	ILE A	413	25.103	35.576	10.266	1.00	16.20
ATOM	2798	O	ILE A	413	25.213	35.125	9.084	1.00	17.17
ATOM	2799	CB	ILE A	413	23.855	33.808	11.533	1.00	16.02
ATOM	2800	CG1	ILE A	413	22.667	33.562	12.469	1.00	13.92
ATOM	2801	CG2	ILE A	413	25.168	33.458	12.218	1.00	15.95
ATOM	2802	CD1	ILE A	413	22.482	32.130	12.862	1.00	14.89
ATOM	2803	N	GLY A	414	26.028	36.332	10.841	1.00	15.43
ATOM	2804	CA	GLY A	414	27.243	36.679	10.132	1.00	14.42
ATOM	2805	C	GLY A	414	28.463	35.899	10.585	1.00	14.91
ATOM	2806	O	GLY A	414	28.569	35.463	11.779	1.00	12.74
ATOM	2807	N	PHE A	415	29.392	35.709	9.656	1.00	12.70
ATOM	2808	CA	PHE A	415	30.638	34.977	9.932	1.00	14.84
ATOM	2809	C	PHE A	415	31.823	35.766	9.403	1.00	15.05
ATOM	2810	O	PHE A	415	31.761	36.376	8.291	1.00	17.34
ATOM	2811	CB	PHE A	415	30.613	33.599	9.256	1.00	13.57
ATOM	2812	CG	PHE A	415	29.628	32.640	9.860	1.00	13.35
ATOM	2813	CD1	PHE A	415	30.034	31.710	10.820	1.00	14.56
ATOM	2814	CD2	PHE A	415	28.296	32.660	9.472	1.00	11.54
ATOM	2815	CE1	PHE A	415	29.117	30.809	11.383	1.00	13.74
ATOM	2816	CE2	PHE A	415	27.373	31.768	10.027	1.00	12.67
ATOM	2817	CZ	PHE A	415	27.787	30.839	10.985	1.00	13.15
ATOM	2818	N	ALA A	416	32.895	35.779	10.178	1.00	15.11
ATOM	2819	CA	ALA A	416	34.135	36.470	9.786	1.00	14.57
ATOM	2820	C	ALA A	416	35.248	35.738	10.515	1.00	14.48
ATOM	2821	O	ALA A	416	35.027	35.186	11.639	1.00	12.56
ATOM	2822	CB	ALA A	416	34.095	37.935	10.208	1.00	11.46
ATOM	2823	N	VAL A	417	36.425	35.692	9.906	1.00	14.71
ATOM	2824	CA	VAL A	417	37.569	35.011	10.528	1.00	16.80
ATOM	2825	C	VAL A	417	37.835	35.634	11.892	1.00	18.08
ATOM	2826	O	VAL A	417	37.922	36.901	12.033	1.00	17.13
ATOM	2827	CB	VAL A	417	38.824	35.126	9.642	1.00	17.67
ATOM	2828	CG1	VAL A	417	40.022	34.486	10.333	1.00	16.83
ATOM	2829	CG2	VAL A	417	38.561	34.441	8.301	1.00	18.32
ATOM	2830	N	SER A	418	37.953	34.785	12.905	1.00	17.31
ATOM	2831	CA	SER A	418	38.201	35.271	14.272	1.00	17.62
ATOM	2832	C	SER A	418	39.637	35.712	14.455	1.00	18.36
ATOM	2833	O	SER A	418	40.591	35.038	13.963	1.00	19.44
ATOM	2834	CB	SER A	418	37.882	34.182	15.295	1.00	18.09
ATOM	2835	OG	SER A	418	38.228	34.617	16.599	1.00	17.42
ATOM	2836	N	ALA A	419	39.821	36.827	15.150	1.00	17.60
ATOM	2837	CA	ALA A	419	41.175	37.335	15.410	1.00	18.46
ATOM	2838	C	ALA A	419	41.877	36.423	16.423	1.00	19.09
ATOM	2839	O	ALA A	419	43.117	36.553	16.649	1.00	19.60
ATOM	2840	CB	ALA A	419	41.106	38.772	15.943	1.00	17.70
ATOM	2841	N	CYS A	420	41.132	35.500	17.032	1.00	19.36
ATOM	2842	CA	CYS A	420	41.736	34.575	18.029	1.00	20.89
ATOM	2843	C	CYS A	420	41.677	33.105	17.624	1.00	19.60
ATOM	2844	O	CYS A	420	41.805	32.202	18.501	1.00	22.74
ATOM	2845	CB	CYS A	420	41.064	34.734	19.410	1.00	21.69
ATOM	2846	SG	CYS A	420	39.353	34.096	19.526	1.00	25.02
ATOM	2847	N	HIS A	421	41.495	32.814	16.342	1.00	17.86
ATOM	2848	CA	HIS A	421	41.435	31.393	15.933	1.00	17.71

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ATOM	2849	C	HIS A	421	42.834	30.798	15.799	1.00	17.18
ATOM	2850	O	HIS A	421	43.801	31.495	15.356	1.00	14.17
ATOM	2851	CB	HIS A	421	40.641	31.236	14.625	1.00	18.65
ATOM	2852	CG	HIS A	421	41.433	31.504	13.381	1.00	18.77
ATOM	2853	ND1	HIS A	421	42.114	30.514	12.705	1.00	18.84
ATOM	2854	CD2	HIS A	421	41.631	32.645	12.678	1.00	18.73
ATOM	2855	CE1	HIS A	421	42.695	31.032	11.637	1.00	17.98
ATOM	2856	NE2	HIS A	421	42.418	32.323	11.597	1.00	20.03
ATOM	2857	N	VAL A	422	42.965	29.533	16.194	1.00	16.96
ATOM	2858	CA	VAL A	422	44.260	28.816	16.132	1.00	16.89
ATOM	2859	C	VAL A	422	44.571	28.334	14.719	1.00	17.53
ATOM	2860	O	VAL A	422	43.678	27.764	14.021	1.00	17.13
ATOM	2861	CB	VAL A	422	44.257	27.588	17.061	1.00	16.92
ATOM	2862	CG1	VAL A	422	45.632	26.938	17.063	1.00	15.15
ATOM	2863	CG2	VAL A	422	43.850	28.004	18.479	1.00	19.33
ATOM	2864	N	HIS A	423	45.815	28.531	14.291	1.00	16.64
ATOM	2865	CA	HIS A	423	46.264	28.112	12.940	1.00	16.92
ATOM	2866	C	HIS A	423	47.792	28.038	12.906	1.00	17.46
ATOM	2867	O	HIS A	423	48.461	28.105	13.981	1.00	17.20
ATOM	2868	CB	HIS A	423	45.755	29.111	11.889	1.00	15.85
ATOM	2869	CG	HIS A	423	46.242	30.512	12.096	1.00	18.62
ATOM	2870	ND1	HIS A	423	47.390	30.998	11.504	1.00	19.80
ATOM	2871	CD2	HIS A	423	45.758	31.522	12.857	1.00	17.42
ATOM	2872	CE1	HIS A	423	47.590	32.245	11.892	1.00	18.22
ATOM	2873	NE2	HIS A	423	46.615	32.586	12.714	1.00	18.53
ATOM	2874	N	ASP A	424	48.360	27.869	11.714	1.00	18.00
ATOM	2875	CA	ASP A	424	49.836	27.817	11.556	1.00	17.75
ATOM	2876	C	ASP A	424	50.194	28.804	10.453	1.00	18.36
ATOM	2877	O	ASP A	424	49.294	29.527	9.935	1.00	20.02
ATOM	2878	CB	ASP A	424	50.305	26.396	11.206	1.00	18.00
ATOM	2879	CG	ASP A	424	49.545	25.791	10.037	1.00	19.08
ATOM	2880	OD1	ASP A	424	49.110	24.623	10.149	1.00	18.99
ATOM	2881	OD2	ASP A	424	49.390	26.473	9.003	1.00	20.46
ATOM	2882	N	GLU A	425	51.459	28.877	10.063	1.00	17.55
ATOM	2883	CA	GLU A	425	51.813	29.853	9.015	1.00	18.77
ATOM	2884	C	GLU A	425	51.497	29.379	7.601	1.00	16.95
ATOM	2885	O	GLU A	425	51.724	30.131	6.613	1.00	17.24
ATOM	2886	CB	GLU A	425	53.289	30.239	9.112	1.00	18.65
ATOM	2887	CG	GLU A	425	54.254	29.150	8.714	1.00	20.84
ATOM	2888	CD	GLU A	425	55.632	29.697	8.381	1.00	21.89
ATOM	2889	OE1	GLU A	425	56.481	28.901	7.936	1.00	22.61
ATOM	2890	OE2	GLU A	425	55.867	30.920	8.559	1.00	22.65
ATOM	2891	N	PHE A	426	50.955	28.171	7.476	1.00	14.60
ATOM	2892	CA	PHE A	426	50.619	27.606	6.150	1.00	13.51
ATOM	2893	C	PHE A	426	49.157	27.767	5.763	1.00	15.14
ATOM	2894	O	PHE A	426	48.826	27.822	4.540	1.00	16.10
ATOM	2895	CB	PHE A	426	51.001	26.127	6.109	1.00	14.53
ATOM	2896	CG	PHE A	426	52.452	25.877	6.400	1.00	14.20
ATOM	2897	CD1	PHE A	426	53.433	26.244	5.482	1.00	13.59
ATOM	2898	CD2	PHE A	426	52.841	25.298	7.606	1.00	14.11
ATOM	2899	CE1	PHE A	426	54.787	26.040	5.762	1.00	14.83
ATOM	2900	CE2	PHE A	426	54.192	25.087	7.897	1.00	15.49
ATOM	2901	CZ	PHE A	426	55.167	25.460	6.969	1.00	14.08
ATOM	2902	N	ARG A	427	48.269	27.827	6.752	1.00	13.77
ATOM	2903	CA	ARG A	427	46.824	27.985	6.469	1.00	14.89
ATOM	2904	C	ARG A	427	46.130	28.695	7.615	1.00	15.43
ATOM	2905	O	ARG A	427	46.630	28.710	8.781	1.00	14.58
ATOM	2906	CB	ARG A	427	46.132	26.632	6.301	1.00	15.33
ATOM	2907	CG	ARG A	427	46.959	25.518	5.707	1.00	16.84
ATOM	2908	CD	ARG A	427	46.645	24.234	6.477	1.00	17.68
ATOM	2909	NE	ARG A	427	45.994	23.230	5.655	1.00	16.69
ATOM	2910	CZ	ARG A	427	45.701	21.998	6.062	1.00	15.45

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ATOM	2911	NH1	ARG A 427	45.114	21.159	5.224	1.00	14.20
ATOM	2912	NH2	ARG A 427	45.981	21.603	7.296	1.00	13.31
ATOM	2913	N	THR A 428	44.976	29.269	7.317	1.00	15.28
ATOM	2914	CA	THR A 428	44.180	29.967	8.336	1.00	17.94
ATOM	2915	C	THR A 428	42.731	29.650	8.041	1.00	16.25
ATOM	2916	O	THR A 428	42.400	29.165	6.923	1.00	14.77
ATOM	2917	CB	THR A 428	44.353	31.503	8.249	1.00	18.18
ATOM	2918	OG1	THR A 428	44.043	31.942	6.921	1.00	20.24
ATOM	2919	CG2	THR A 428	45.773	31.901	8.583	1.00	19.84
ATOM	2920	N	ALA A 429	41.860	29.901	9.009	1.00	16.14
ATOM	2921	CA	ALA A 429	40.423	29.677	8.803	1.00	16.03
ATOM	2922	C	ALA A 429	40.048	30.739	7.775	1.00	15.66
ATOM	2923	O	ALA A 429	40.808	31.738	7.574	1.00	14.51
ATOM	2924	CB	ALA A 429	39.656	29.898	10.105	1.00	17.08
ATOM	2925	N	ALA A 430	38.920	30.575	7.107	1.00	14.04
ATOM	2926	CA	ALA A 430	38.556	31.576	6.100	1.00	13.71
ATOM	2927	C	ALA A 430	37.067	31.706	5.883	1.00	11.98
ATOM	2928	O	ALA A 430	36.271	30.754	6.166	1.00	12.33
ATOM	2929	CB	ALA A 430	39.251	31.246	4.762	1.00	12.27
ATOM	2930	N	VAL A 431	36.671	32.874	5.396	1.00	11.01
ATOM	2931	CA	VAL A 431	35.260	33.149	5.076	1.00	13.39
ATOM	2932	C	VAL A 431	35.344	33.773	3.697	1.00	15.69
ATOM	2933	O	VAL A 431	35.857	34.926	3.533	1.00	17.86
ATOM	2934	CB	VAL A 431	34.624	34.145	6.056	1.00	11.50
ATOM	2935	CG1	VAL A 431	33.148	34.294	5.737	1.00	10.61
ATOM	2936	CG2	VAL A 431	34.818	33.659	7.494	1.00	10.71
ATOM	2937	N	GLU A 432	34.874	33.048	2.694	1.00	16.74
ATOM	2938	CA	GLU A 432	34.969	33.544	1.320	1.00	18.65
ATOM	2939	C	GLU A 432	33.681	33.414	0.530	1.00	18.40
ATOM	2940	O	GLU A 432	32.794	32.567	0.852	1.00	16.81
ATOM	2941	CB	GLU A 432	36.097	32.796	0.607	1.00	19.91
ATOM	2942	CG	GLU A 432	37.460	33.031	1.241	1.00	24.66
ATOM	2943	CD	GLU A 432	38.466	31.930	0.935	1.00	27.80
ATOM	2944	OE1	GLU A 432	39.681	32.196	1.051	1.00	30.84
ATOM	2945	OE2	GLU A 432	38.049	30.799	0.595	1.00	28.87
ATOM	2946	N	GLY A 433	33.574	34.243	-0.504	1.00	18.95
ATOM	2947	CA	GLY A 433	32.408	34.244	-1.363	1.00	19.36
ATOM	2948	C	GLY A 433	32.504	35.385	-2.359	1.00	19.59
ATOM	2949	O	GLY A 433	33.489	36.173	-2.328	1.00	18.33
ATOM	2950	N	PRO A 434	31.511	35.539	-3.243	1.00	19.47
ATOM	2951	CA	PRO A 434	30.345	34.655	-3.285	1.00	19.72
ATOM	2952	C	PRO A 434	30.485	33.589	-4.353	1.00	19.98
ATOM	2953	O	PRO A 434	31.382	33.674	-5.235	1.00	22.24
ATOM	2954	CB	PRO A 434	29.215	35.619	-3.595	1.00	19.80
ATOM	2955	CG	PRO A 434	29.869	36.517	-4.616	1.00	19.70
ATOM	2956	CD	PRO A 434	31.261	36.770	-4.018	1.00	19.73
ATOM	2957	N	PHE A 435	29.624	32.583	-4.290	1.00	21.45
ATOM	2958	CA	PHE A 435	29.619	31.502	-5.292	1.00	22.31
ATOM	2959	C	PHE A 435	28.217	31.513	-5.872	1.00	24.39
ATOM	2960	O	PHE A 435	27.207	31.636	-5.110	1.00	24.58
ATOM	2961	CB	PHE A 435	29.924	30.155	-4.636	1.00	22.02
ATOM	2962	CG	PHE A 435	31.215	30.141	-3.876	1.00	20.80
ATOM	2963	CD1	PHE A 435	31.232	30.392	-2.507	1.00	20.70
ATOM	2964	CD2	PHE A 435	32.424	29.945	-4.542	1.00	21.70
ATOM	2965	CE1	PHE A 435	32.432	30.451	-1.809	1.00	20.27
ATOM	2966	CE2	PHE A 435	33.634	30.003	-3.853	1.00	21.68
ATOM	2967	CZ	PHE A 435	33.637	30.259	-2.481	1.00	21.51
ATOM	2968	N	VAL A 436	28.117	31.396	-7.192	1.00	27.02
ATOM	2969	CA	VAL A 436	26.802	31.438	-7.872	1.00	29.79
ATOM	2970	C	VAL A 436	26.526	30.219	-8.739	1.00	32.85
ATOM	2971	O	VAL A 436	25.434	30.120	-9.376	1.00	33.81
ATOM	2972	CB	VAL A 436	26.702	32.677	-8.787	1.00	28.98

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ATOM	2973	CG1	VAL A	436	26.999	33.944	-7.996	1.00	29.00
ATOM	2974	CG2	VAL A	436	27.678	32.537	-9.947	1.00	28.49
ATOM	2975	N	THR A	437	27.473	29.292	-8.795	1.00	36.05
ATOM	2976	CA	THR A	437	27.305	28.089	-9.638	1.00	39.30
ATOM	2977	C	THR A	437	26.582	26.979	-8.870	1.00	41.99
ATOM	2978	O	THR A	437	26.604	25.775	-9.276	1.00	41.77
ATOM	2979	CB	THR A	437	28.690	27.592	-10.123	1.00	39.02
ATOM	2980	OG1	THR A	437	28.552	26.981	-11.408	1.00	42.51
ATOM	2981	CG2	THR A	437	29.280	26.578	-9.156	1.00	38.10
ATOM	2982	N	LEU A	438	25.908	27.368	-7.794	1.00	45.33
ATOM	2983	CA	LEU A	438	25.199	26.417	-6.901	1.00	49.22
ATOM	2984	C	LEU A	438	23.753	26.016	-7.165	1.00	50.49
ATOM	2985	O	LEU A	438	22.869	26.878	-7.466	1.00	51.99
ATOM	2986	CB	LEU A	438	25.276	26.944	-5.473	1.00	50.30
ATOM	2987	CG	LEU A	438	26.027	28.269	-5.358	1.00	50.73
ATOM	2988	CD1	LEU A	438	25.108	29.457	-5.584	1.00	50.27
ATOM	2989	CD2	LEU A	438	26.629	28.328	-4.001	1.00	51.67
ATOM	2990	N	ASP A	439	23.505	24.715	-7.037	1.00	52.67
ATOM	2991	CA	ASP A	439	22.149	24.128	-7.172	1.00	55.74
ATOM	2992	C	ASP A	439	21.690	24.224	-5.722	1.00	56.96
ATOM	2993	O	ASP A	439	21.757	23.221	-4.945	1.00	57.33
ATOM	2994	CB	ASP A	439	22.240	22.657	-7.586	1.00	56.39
ATOM	2995	CG	ASP A	439	20.879	21.993	-7.695	1.00	57.68
ATOM	2996	OD1	ASP A	439	20.046	22.178	-6.781	1.00	57.75
ATOM	2997	OD2	ASP A	439	20.645	21.274	-8.692	1.00	58.18
ATOM	2998	N	MET A	440	21.233	25.407	-5.337	1.00	58.71
ATOM	2999	CA	MET A	440	20.841	25.656	-3.944	1.00	60.87
ATOM	3000	C	MET A	440	19.435	26.215	-3.713	1.00	62.52
ATOM	3001	O	MET A	440	19.247	27.451	-3.489	1.00	63.93
ATOM	3002	CB	MET A	440	21.916	26.569	-3.346	1.00	60.48
ATOM	3003	CG	MET A	440	21.523	27.456	-2.201	1.00	60.72
ATOM	3004	SD	MET A	440	22.755	28.755	-2.086	1.00	59.28
ATOM	3005	CE	MET A	440	22.367	29.689	-3.543	1.00	59.46
ATOM	3006	N	GLU A	441	18.435	25.343	-3.765	1.00	63.61
ATOM	3007	CA	GLU A	441	17.042	25.774	-3.514	1.00	65.54
ATOM	3008	C	GLU A	441	16.356	24.847	-2.518	1.00	64.49
ATOM	3009	O	GLU A	441	15.998	25.285	-1.375	1.00	65.36
ATOM	3010	CB	GLU A	441	16.229	25.847	-4.815	1.00	67.99
ATOM	3011	CG	GLU A	441	16.500	24.745	-5.822	1.00	70.98
ATOM	3012	CD	GLU A	441	17.353	25.228	-6.981	1.00	72.23
ATOM	3013	OE1	GLU A	441	18.507	25.646	-6.742	1.00	73.24
ATOM	3014	OE2	GLU A	441	16.867	25.194	-8.132	1.00	73.30
ATOM	3015	N	ASP A	442	16.170	23.585	-2.896	1.00	61.29
ATOM	3016	CA	ASP A	442	15.519	22.616	-1.986	1.00	58.37
ATOM	3017	C	ASP A	442	16.504	21.966	-1.018	1.00	55.47
ATOM	3018	O	ASP A	442	16.615	20.704	-0.950	1.00	54.59
ATOM	3019	CB	ASP A	442	14.800	21.530	-2.785	1.00	59.93
ATOM	3020	CG	ASP A	442	13.298	21.616	-2.646	1.00	60.90
ATOM	3021	OD1	ASP A	442	12.689	22.478	-3.312	1.00	61.34
ATOM	3022	OD2	ASP A	442	12.729	20.832	-1.854	1.00	61.81
ATOM	3023	N	CYS A	443	17.207	22.790	-0.252	1.00	51.31
ATOM	3024	CA	CYS A	443	18.200	22.281	0.713	1.00	47.79
ATOM	3025	C	CYS A	443	17.635	22.156	2.121	1.00	46.40
ATOM	3026	O	CYS A	443	18.168	21.373	2.965	1.00	44.04
ATOM	3027	CB	CYS A	443	19.421	23.198	0.713	1.00	48.61
ATOM	3028	SG	CYS A	443	20.176	23.339	-0.939	1.00	46.95
ATOM	3029	N	GLY A	444	16.566	22.895	2.395	1.00	45.40
ATOM	3030	CA	GLY A	444	15.953	22.846	3.709	1.00	45.06
ATOM	3031	C	GLY A	444	15.011	21.673	3.899	1.00	45.25
ATOM	3032	O	GLY A	444	14.271	21.264	2.952	1.00	44.97
ATOM	3033	N	TYR A	445	15.018	21.109	5.101	1.00	44.97
ATOM	3034	CA	TYR A	445	14.140	19.968	5.421	1.00	44.48

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ATOM	3035	C	TYR	A	445	12.778	20.467	5.882	1.00	45.23
ATOM	3036	O	TYR	A	445	12.662	21.558	6.530	1.00	44.57
ATOM	3037	CB	TYR	A	445	14.801	19.172	6.531	1.00	43.11
ATOM	3038	CG	TYR	A	445	13.918	17.997	6.871	1.00	42.75
ATOM	3039	CD1	TYR	A	445	13.846	16.905	6.010	1.00	42.58
ATOM	3040	CD2	TYR	A	445	13.170	17.998	8.049	1.00	42.27
ATOM	3041	CE1	TYR	A	445	13.042	15.820	6.327	1.00	41.99
ATOM	3042	CE2	TYR	A	445	12.358	16.917	8.360	1.00	43.20
ATOM	3043	CZ	TYR	A	445	12.289	15.835	7.503	1.00	41.98
ATOM	3044	OH	TYR	A	445	11.490	14.751	7.810	1.00	20.00
ATOM	3045	N	ASN	A	446	11.746	19.699	5.550	1.00	45.69
ATOM	3046	CA	ASN	A	446	10.359	20.012	5.947	1.00	48.64
ATOM	3047	C	ASN	A	446	9.776	18.726	6.524	1.00	50.90
ATOM	3048	O	ASN	A	446	9.894	17.625	5.896	1.00	51.59
ATOM	3049	CB	ASN	A	446	9.537	20.470	4.738	1.00	48.19
ATOM	3050	CG	ASN	A	446	9.975	21.827	4.213	1.00	48.18
ATOM	3051	OD1	ASN	A	446	9.926	22.858	4.950	1.00	48.63
ATOM	3052	ND2	ASN	A	446	10.403	21.867	2.957	1.00	48.04
ATOM	3053	N	ILE	A	447	9.165	18.826	7.700	1.00	53.94
ATOM	3054	CA	ILE	A	447	8.569	17.650	8.388	1.00	55.99
ATOM	3055	C	ILE	A	447	7.720	16.772	7.463	1.00	57.01
ATOM	3056	O	ILE	A	447	7.449	17.195	6.318	1.00	58.11
ATOM	3057	CB	ILE	A	447	7.699	18.105	9.577	1.00	55.86
ATOM	3058	CG1	ILE	A	447	8.488	19.086	10.450	1.00	56.28
ATOM	3059	CG2	ILE	A	447	7.267	16.900	10.406	1.00	56.92
ATOM	3060	CD1	ILE	A	447	9.759	18.505	11.037	1.00	55.79
ATOM	3061	OXT	ILE	A	447	7.328	15.666	7.895	1.00	57.55
ATOM	3062	N	SER	P	1	35.528	15.672	28.238	1.00	37.61
ATOM	3063	CA	SER	P	1	34.172	16.082	28.590	1.00	36.72
ATOM	3064	C	SER	P	1	33.508	16.863	27.450	1.00	34.75
ATOM	3065	O	SER	P	1	34.132	17.643	26.742	1.00	36.46
ATOM	3066	CB	SER	P	1	34.248	16.949	29.848	1.00	37.77
ATOM	3067	OG	SER	P	1	33.152	17.865	29.853	1.00	40.82
ATOM	3068	N	GLU	P	2	32.203	16.601	27.257	1.00	32.86
ATOM	3069	CA	GLU	P	2	31.513	17.216	26.129	1.00	32.80
ATOM	3070	C	GLU	P	2	30.218	17.906	26.552	1.00	31.23
ATOM	3071	O	GLU	P	2	29.435	17.401	27.348	1.00	31.31
ATOM	3072	CB	GLU	P	2	31.275	16.167	25.027	1.00	33.64
ATOM	3073	CG	GLU	P	2	31.096	17.096	23.826	1.00	37.41
ATOM	3074	CD	GLU	P	2	31.076	15.940	22.852	1.00	38.37
ATOM	3075	OE1	GLU	P	2	31.996	15.134	22.983	1.00	39.04
ATOM	3076	OE2	GLU	P	2	30.175	15.798	22.037	1.00	39.43
ATOM	3077	N	VAL	P	3	29.742	19.344	26.106	1.00	27.98
ATOM	3078	CA	VAL	P	3	28.367	19.820	26.101	1.00	26.44
ATOM	3079	C	VAL	P	3	27.717	19.598	24.735	1.00	26.26
ATOM	3080	O	VAL	P	3	28.371	19.580	23.701	1.00	25.48
ATOM	3081	CB	VAL	P	3	28.377	21.311	26.429	1.00	25.89
ATOM	3082	CG1	VAL	P	3	28.684	21.516	27.911	1.00	27.07
ATOM	3083	CG2	VAL	P	3	29.431	22.012	25.594	1.00	23.97
ATOM	3084	N	ASN	P	4	26.361	19.591	25.174	1.00	25.89
ATOM	3085	CA	ASN	P	4	25.421	19.254	24.075	1.00	26.64
ATOM	3086	C	ASN	P	4	24.027	19.825	24.452	1.00	26.87
ATOM	3087	O	ASN	P	4	23.116	19.163	25.077	1.00	27.10
ATOM	3088	CB	ASN	P	4	25.349	17.766	23.876	1.00	27.95
ATOM	3089	CG	ASN	P	4	26.498	17.245	22.971	1.00	29.39
ATOM	3090	OD1	ASN	P	4	26.499	17.409	21.723	1.00	31.90
ATOM	3091	ND2	ASN	P	4	27.489	16.617	23.603	1.00	31.97
ATOM	3092	N	STA	P	5	24.115	21.101	24.323	1.00	25.26
ATOM	3093	CA	STA	P	5	22.965	21.865	24.929	1.00	25.83
ATOM	3094	CB	STA	P	5	23.683	22.681	26.021	1.00	27.28
ATOM	3095	CG	STA	P	5	24.378	22.057	27.197	1.00	28.07
ATOM	3096	CD1	STA	P	5	25.002	23.077	28.182	1.00	27.46

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ATOM	3097	CD2	STA	P	5	23.280	21.130	27.828	1.00	25.47
ATOM	3098	CH	STA	P	5	22.223	22.851	23.940	1.00	25.86
ATOM	3099	OH	STA	P	5	23.028	23.679	23.298	1.00	25.23
ATOM	3100	CM	STA	P	5	21.372	21.980	23.048	1.00	27.11
ATOM	3101	C	STA	P	5	20.420	21.340	24.125	1.00	27.81
ATOM	3102	O	STA	P	5	20.241	20.065	24.095	1.00	25.70
ATOM	3103	N	VAL	P	6	19.339	22.479	23.764	1.00	26.04
ATOM	3104	CA	VAL	P	6	18.037	21.953	24.156	1.00	27.12
ATOM	3105	C	VAL	P	6	17.496	20.965	23.121	1.00	27.36
ATOM	3106	O	VAL	P	6	17.795	21.029	21.936	1.00	26.97
ATOM	3107	CB	VAL	P	6	17.073	23.130	24.312	1.00	27.18
ATOM	3108	CG1	VAL	P	6	16.433	23.463	22.965	1.00	26.70
ATOM	3109	CG2	VAL	P	6	15.985	22.781	25.311	1.00	28.74
ATOM	3110	N	ALA	P	7	16.702	19.998	23.617	1.00	28.68
ATOM	3111	CA	ALA	P	7	16.158	18.986	22.720	1.00	32.14
ATOM	3112	C	ALA	P	7	14.774	19.377	22.197	1.00	32.99
ATOM	3113	O	ALA	P	7	14.040	20.149	22.801	1.00	32.08
ATOM	3114	CB	ALA	P	7	16.072	17.666	23.489	1.00	31.38
ATOM	3115	N	GLU	P	8	14.443	18.843	21.007	1.00	36.10
ATOM	3116	CA	GLU	P	8	13.144	19.143	20.418	1.00	39.90
ATOM	3117	C	GLU	P	8	12.012	18.425	21.158	1.00	41.72
ATOM	3118	O	GLU	P	8	12.189	17.359	21.733	1.00	41.52
ATOM	3119	CB	GLU	P	8	13.172	18.705	18.952	1.00	39.88
ATOM	3120	CG	GLU	P	8	14.037	19.626	18.090	1.00	41.02
ATOM	3121	CD	GLU	P	8	13.896	19.235	16.637	1.00	41.83
ATOM	3122	OE1	GLU	P	8	14.911	19.052	15.979	1.00	41.60
ATOM	3123	OE2	GLU	P	8	12.765	19.124	16.169	1.00	41.88
ATOM	3124	N	PHE	P	9	10.811	18.986	21.162	1.00	45.62
ATOM	3125	CA	PHE	P	9	9.677	18.356	21.865	1.00	49.63
ATOM	3126	C	PHE	P	9	9.382	16.960	21.337	1.00	50.61
ATOM	3127	O	PHE	P	9	9.156	16.839	20.116	1.00	51.38
ATOM	3128	CB	PHE	P	9	8.451	19.245	21.670	1.00	50.65
ATOM	3129	CG	PHE	P	9	8.607	20.501	22.499	1.00	52.48
ATOM	3130	CD1	PHE	P	9	8.278	20.493	23.849	1.00	52.80
ATOM	3131	CD2	PHE	P	9	9.073	21.659	21.899	1.00	53.12
ATOM	3132	CE1	PHE	P	9	8.420	21.651	24.600	1.00	53.74
ATOM	3133	CE2	PHE	P	9	9.215	22.817	22.659	1.00	53.61
ATOM	3134	CZ	PHE	P	9	8.890	22.817	24.010	1.00	54.24
ATOM	3135	OXT	PHE	P	9	9.383	16.011	22.152	1.00	51.56
ATOM	3136	OH2	TIP	C	2	37.673	4.149	14.933	1.00	18.73
ATOM	3137	OH2	TIP	C	3	37.999	19.019	28.545	1.00	20.36
ATOM	3138	OH2	TIP	C	12	46.550	23.555	9.446	1.00	16.05
ATOM	3139	OH2	TIP	C	14	18.354	26.505	28.719	1.00	14.14
ATOM	3140	OH2	TIP	C	15	33.073	10.884	15.835	1.00	14.30
ATOM	3141	OH2	TIP	C	16	15.032	34.698	31.070	1.00	11.96
ATOM	3142	OH2	TIP	C	17	7.170	35.908	33.277	1.00	16.70
ATOM	3143	OH2	TIP	C	19	16.624	32.704	28.166	1.00	15.10
ATOM	3144	OH2	TIP	C	20	35.078	42.552	29.609	1.00	19.72
ATOM	3145	OH2	TIP	C	21	40.457	30.360	27.755	1.00	16.31
ATOM	3146	OH2	TIP	C	22	52.263	20.430	9.725	1.00	20.11
ATOM	3147	OH2	TIP	C	23	20.720	20.412	14.822	1.00	12.68
ATOM	3148	OH2	TIP	C	24	33.413	15.317	-5.393	1.00	15.90
ATOM	3149	OH2	TIP	C	25	38.275	25.072	23.469	1.00	13.40
ATOM	3150	OH2	TIP	C	27	16.591	21.729	7.186	1.00	19.86
ATOM	3151	OH2	TIP	C	28	21.798	19.346	19.780	1.00	14.31
ATOM	3152	OH2	TIP	C	29	17.533	34.724	25.177	1.00	16.69
ATOM	3153	OH2	TIP	C	30	29.162	27.768	25.821	1.00	19.19
ATOM	3154	OH2	TIP	C	31	40.631	28.021	16.946	1.00	14.53
ATOM	3155	OH2	TIP	C	32	32.428	32.415	17.998	1.00	10.42
ATOM	3156	OH2	TIP	C	33	11.884	34.798	21.161	1.00	23.00
ATOM	3157	OH2	TIP	C	34	27.837	25.769	-5.173	1.00	33.18
ATOM	3158	OH2	TIP	C	35	12.372	31.279	28.339	1.00	16.96

FIG. 1YY

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ATOM	3159	OH2	TIP	C	36	39.263	28.648	25.755	1.00	9.84
ATOM	3160	OH2	TIP	C	40	38.924	30.840	30.171	1.00	13.35
ATOM	3161	OH2	TIP	C	41	18.085	18.989	18.858	1.00	16.60
ATOM	3162	OH2	TIP	C	42	7.300	35.692	30.168	1.00	19.22
ATOM	3163	OH2	TIP	C	43	14.250	32.017	30.405	1.00	18.32
ATOM	3164	OH2	TIP	C	44	37.440	22.761	1.333	1.00	23.96
ATOM	3165	OH2	TIP	C	45	29.932	39.949	32.969	1.00	22.64
ATOM	3166	OH2	TIP	C	46	29.433	17.902	20.935	1.00	16.15
ATOM	3167	OH2	TIP	C	47	53.536	22.468	21.774	1.00	21.62
ATOM	3168	OH2	TIP	C	48	40.180	15.699	-0.272	1.00	12.15
ATOM	3169	OH2	TIP	C	49	14.955	25.973	25.745	1.00	11.98
ATOM	3170	OH2	TIP	C	50	38.595	6.527	3.885	1.00	23.66
ATOM	3171	OH2	TIP	C	51	48.551	24.793	17.574	1.00	18.30
ATOM	3172	OH2	TIP	C	52	20.747	27.407	17.869	1.00	8.25
ATOM	3173	OH2	TIP	C	53	26.489	18.730	30.746	1.00	26.59
ATOM	3174	OH2	TIP	C	54	38.723	11.162	19.249	1.00	11.49
ATOM	3175	OH2	TIP	C	55	33.881	26.191	31.382	1.00	19.21
ATOM	3176	OH2	TIP	C	56	13.322	31.213	40.027	1.00	15.61
ATOM	3177	OH2	TIP	C	57	19.497	16.134	41.439	1.00	26.82
ATOM	3178	OH2	TIP	C	58	38.469	37.062	5.695	1.00	23.10
ATOM	3179	OH2	TIP	C	59	45.575	15.894	3.122	1.00	18.45
ATOM	3180	OH2	TIP	C	60	39.615	25.333	-1.743	1.00	20.09
ATOM	3181	OH2	TIP	C	61	32.158	37.928	32.431	1.00	12.17
ATOM	3182	OH2	TIP	C	62	46.793	19.609	22.823	1.00	19.81
ATOM	3183	OH2	TIP	C	63	24.847	37.031	-0.659	1.00	29.98
ATOM	3184	OH2	TIP	C	64	45.957	18.715	3.836	1.00	18.88
ATOM	3185	OH2	TIP	C	65	36.189	33.100	17.653	1.00	10.63
ATOM	3186	OH2	TIP	C	66	31.177	25.020	24.150	1.00	28.40
ATOM	3187	OH2	TIP	C	67	46.181	23.210	18.466	1.00	20.41
ATOM	3188	OH2	TIP	C	68	21.756	10.923	7.943	1.00	22.80
ATOM	3189	OH2	TIP	C	69	12.936	36.695	30.481	1.00	17.63
ATOM	3190	OH2	TIP	C	70	33.713	44.843	8.382	1.00	30.49
ATOM	3191	OH2	TIP	C	71	21.051	41.550	39.982	1.00	31.15
ATOM	3192	OH2	TIP	C	72	26.815	38.732	3.198	1.00	22.61
ATOM	3193	OH2	TIP	C	73	41.656	24.820	21.177	1.00	19.69
ATOM	3194	OH2	TIP	C	74	25.521	30.139	47.617	1.00	31.08
ATOM	3195	OH2	TIP	C	75	20.497	46.537	15.336	1.00	29.67
ATOM	3196	OH2	TIP	C	76	7.708	28.422	41.027	1.00	26.00
ATOM	3197	OH2	TIP	C	77	25.650	18.585	27.821	1.00	17.30
ATOM	3198	OH2	TIP	C	78	35.124	16.582	21.374	1.00	15.44
ATOM	3199	OH2	TIP	C	79	16.806	29.258	45.952	1.00	22.64
ATOM	3200	OH2	TIP	C	80	29.365	7.305	14.767	1.00	28.00
ATOM	3201	OH2	TIP	C	81	36.259	9.577	-0.018	1.00	36.72
ATOM	3202	OH2	TIP	C	82	5.598	37.375	35.367	1.00	29.64
ATOM	3203	OH2	TIP	C	83	14.256	22.267	9.863	1.00	20.30
ATOM	3204	OH2	TIP	C	84	34.533	14.826	41.318	1.00	35.70
ATOM	3205	OH2	TIP	C	85	14.253	38.931	17.469	1.00	22.15
ATOM	3206	OH2	TIP	C	86	40.762	43.633	8.075	1.00	32.27
ATOM	3207	OH2	TIP	C	87	20.139	38.471	47.202	1.00	19.79
ATOM	3208	OH2	TIP	C	88	49.003	25.388	14.809	1.00	16.95
ATOM	3209	OH2	TIP	C	89	48.376	21.580	21.346	1.00	26.51
ATOM	3210	OH2	TIP	C	90	38.281	15.314	27.561	1.00	34.16
ATOM	3211	OH2	TIP	C	91	8.631	39.984	34.095	1.00	41.37
ATOM	3212	OH2	TIP	C	92	50.906	23.612	20.744	1.00	52.18
ATOM	3213	OH2	TIP	C	93	53.785	20.060	24.538	1.00	24.16
ATOM	3214	OH2	TIP	C	94	24.823	42.619	11.579	1.00	21.18
ATOM	3215	OH2	TIP	C	95	25.075	45.083	6.146	1.00	38.65
ATOM	3216	OH2	TIP	C	96	40.830	25.584	18.443	1.00	18.31
ATOM	3217	OH2	TIP	C	97	43.416	22.239	18.182	1.00	19.16
ATOM	3218	OH2	TIP	C	98	13.417	34.174	40.223	1.00	31.15
ATOM	3219	OH2	TIP	C	99	33.278	34.940	35.258	1.00	19.39
ATOM	3220	OH2	TIP	C	100	16.214	11.125	16.638	1.00	44.74

FIG. 1ZZ

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ATOM	3221	OH2	TIP	C	101	53.364	20.723	14.579	1.00	34.15
ATOM	3222	OH2	TIP	C	102	49.883	22.898	7.975	1.00	17.76
ATOM	3223	OH2	TIP	C	103	23.025	15.361	39.364	1.00	32.71
ATOM	3224	OH2	TIP	C	104	9.989	41.920	29.368	1.00	18.54
ATOM	3225	OH2	TIP	C	105	40.434	26.276	24.857	1.00	17.36
ATOM	3226	OH2	TIP	C	106	20.997	29.964	6.095	1.00	20.90
ATOM	3227	OH2	TIP	C	107	27.762	47.336	16.035	1.00	24.48
ATOM	3228	OH2	TIP	C	108	49.284	22.771	5.126	1.00	18.73
ATOM	3229	OH2	TIP	C	109	48.838	23.239	29.592	1.00	33.97
ATOM	3230	OH2	TIP	C	110	28.582	23.099	35.349	1.00	20.25
ATOM	3231	OH2	TIP	C	111	32.528	35.162	39.110	1.00	29.39
ATOM	3232	OH2	TIP	C	112	41.404	21.066	27.696	1.00	29.24
ATOM	3233	OH2	TIP	C	113	41.566	30.795	24.916	1.00	29.04
ATOM	3234	OH2	TIP	C	114	38.888	34.349	4.634	1.00	19.24
ATOM	3235	OH2	TIP	C	115	21.524	13.318	6.181	1.00	21.83
ATOM	3236	OH2	TIP	C	116	20.262	44.365	41.166	1.00	51.68
ATOM	3237	OH2	TIP	C	117	40.866	37.586	7.262	1.00	26.48
ATOM	3238	OH2	TIP	C	118	24.269	19.013	20.381	1.00	20.56
ATOM	3239	OH2	TIP	C	119	14.796	40.366	21.026	1.00	26.21
ATOM	3240	OH2	TIP	C	120	40.271	21.968	24.452	1.00	22.99
ATOM	3241	OH2	TIP	C	121	27.256	8.206	3.568	1.00	32.16
ATOM	3242	OH2	TIP	C	122	38.453	23.426	21.155	1.00	20.65
ATOM	3243	OH2	TIP	C	123	39.489	30.192	18.787	1.00	19.64
ATOM	3244	OH2	TIP	C	124	49.479	24.877	3.120	1.00	15.38
ATOM	3245	OH2	TIP	C	125	23.534	17.922	36.838	1.00	21.55
ATOM	3246	OH2	TIP	C	126	24.481	13.568	37.531	1.00	33.00
ATOM	3247	OH2	TIP	C	127	27.515	37.075	45.132	1.00	32.65
ATOM	3248	OH2	TIP	C	128	20.903	11.530	10.774	1.00	25.13
ATOM	3249	OH2	TIP	C	129	16.996	37.117	6.834	1.00	26.72
ATOM	3250	OH2	TIP	C	130	42.280	39.848	5.806	1.00	39.08
ATOM	3251	OH2	TIP	C	131	15.426	37.238	14.643	1.00	27.36
ATOM	3252	OH2	TIP	C	132	47.740	29.973	16.321	1.00	27.58
ATOM	3253	OH2	TIP	C	133	52.162	19.864	18.278	1.00	19.10
ATOM	3254	OH2	TIP	C	134	47.805	11.416	4.529	1.00	30.40
ATOM	3255	OH2	TIP	C	135	20.920	22.905	41.964	1.00	23.80
ATOM	3256	OH2	TIP	C	136	27.784	19.013	-1.506	1.00	28.71
ATOM	3257	OH2	TIP	C	137	25.506	36.437	2.115	1.00	19.53
ATOM	3258	OH2	TIP	C	138	6.347	36.058	44.801	1.00	30.54
ATOM	3259	OH2	TIP	C	139	18.428	23.862	8.397	1.00	19.65
ATOM	3260	OH2	TIP	C	140	56.631	14.945	24.048	1.00	29.26
ATOM	3261	OH2	TIP	C	141	36.045	33.381	-3.424	1.00	39.63
ATOM	3262	OH2	TIP	C	142	20.242	14.180	11.802	1.00	31.49
ATOM	3263	OH2	TIP	C	143	8.614	22.301	31.526	1.00	30.94
ATOM	3264	OH2	TIP	C	144	8.697	38.736	31.440	1.00	44.64
ATOM	3265	OH2	TIP	C	145	21.002	20.115	40.621	1.00	23.34
ATOM	3266	OH2	TIP	C	146	36.343	37.533	7.628	1.00	25.43
ATOM	3267	OH2	TIP	C	147	13.944	44.970	51.125	1.00	40.01
ATOM	3268	OH2	TIP	C	148	12.509	22.964	23.735	1.00	33.44
ATOM	3269	OH2	TIP	C	149	32.555	6.398	6.686	1.00	30.50
ATOM	3270	OH2	TIP	C	150	11.123	30.018	41.695	1.00	29.12
ATOM	3271	OH2	TIP	C	151	20.406	19.454	17.419	1.00	26.72
ATOM	3272	OH2	TIP	C	152	37.729	21.375	25.750	1.00	27.16
ATOM	3273	OH2	TIP	C	153	36.922	28.170	33.507	1.00	42.28
ATOM	3274	OH2	TIP	C	154	13.904	29.766	32.277	1.00	19.72
ATOM	3275	OH2	TIP	C	155	54.556	19.732	11.775	1.00	37.67
ATOM	3276	OH2	TIP	C	156	14.999	28.327	48.310	1.00	40.64
ATOM	3277	OH2	TIP	C	157	19.001	46.759	12.106	1.00	40.48
ATOM	3278	OH2	TIP	C	158	22.361	9.339	13.691	1.00	44.57
ATOM	3279	OH2	TIP	C	159	26.097	16.601	36.996	1.00	27.61
ATOM	3280	OH2	TIP	C	160	51.862	24.669	14.501	1.00	39.22
ATOM	3281	OH2	TIP	C	161	42.713	33.316	38.299	1.00	37.21
ATOM	3282	OH2	TIP	C	162	32.074	43.316	6.583	1.00	32.14

FIG. 1AAA

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ATOM	3283	OH2	TIP C	163	44.434	22.056	2.693	1.00	44.76
ATOM	3284	OH2	TIP C	164	24.074	33.090	45.770	1.00	26.95
ATOM	3285	OH2	TIP C	165	12.289	35.656	48.500	1.00	33.30
ATOM	3286	OH2	TIP C	166	19.499	27.253	51.538	1.00	48.93
ATOM	3287	OH2	TIP C	167	28.896	14.390	20.410	1.00	32.12
ATOM	3288	OH2	TIP C	168	7.799	34.543	25.107	1.00	34.11
ATOM	3289	OH2	TIP C	169	41.359	33.697	5.939	1.00	29.72
ATOM	3290	OH2	TIP C	170	26.378	23.008	46.449	1.00	37.54
ATOM	3291	OH2	TIP C	171	10.530	41.770	49.010	1.00	34.66
ATOM	3292	OH2	TIP C	172	41.154	5.586	4.533	1.00	25.18
ATOM	3293	OH2	TIP C	173	17.462	11.487	4.521	1.00	46.32
ATOM	3294	OH2	TIP C	174	7.600	39.527	37.113	1.00	36.37
ATOM	3295	OH2	TIP C	175	3.552	23.235	37.583	1.00	39.37
ATOM	3296	OH2	TIP C	176	32.818	21.891	40.191	1.00	36.81
ATOM	3297	OH2	TIP C	177	30.404	26.159	40.588	1.00	38.22
ATOM	3298	OH2	TIP C	178	16.691	29.183	54.400	1.00	39.76
ATOM	3299	OH2	TIP C	179	16.247	47.986	22.417	1.00	32.19
ATOM	3300	OH2	TIP C	180	37.394	44.558	11.594	1.00	39.03
ATOM	3301	OH2	TIP C	181	53.552	27.209	11.822	1.00	47.97
ATOM	3302	OH2	TIP C	182	10.503	32.709	12.025	1.00	38.41
ATOM	3303	OH2	TIP C	183	17.985	14.916	28.259	1.00	36.86
ATOM	3304	OH2	TIP C	184	25.047	45.446	12.174	1.00	49.92
ATOM	3305	OH2	TIP C	185	16.402	15.741	36.532	1.00	40.29
ATOM	3306	OH2	TIP C	186	51.364	22.471	17.335	1.00	28.11
ATOM	3307	OH2	TIP C	187	25.633	28.369	50.282	1.00	42.57
ATOM	3308	OH2	TIP C	188	35.183	14.816	0.037	1.00	36.60
ATOM	3309	OH2	TIP C	189	8.318	26.536	23.386	1.00	44.75
ATOM	3310	OH2	TIP C	190	47.893	17.794	24.745	1.00	42.51
ATOM	3311	OH2	TIP C	191	2.728	32.293	36.650	1.00	38.36
ATOM	3312	OH2	TIP C	192	30.315	9.929	15.860	1.00	39.58
ATOM	3313	OH2	TIP C	193	29.613	40.378	2.225	1.00	41.26
ATOM	3314	OH2	TIP C	194	14.241	43.934	16.316	1.00	43.60
ATOM	3315	OH2	TIP C	195	48.673	31.215	7.801	1.00	32.67
ATOM	3316	OH2	TIP C	196	10.948	21.963	18.969	1.00	41.87
ATOM	3317	OH2	TIP C	197	37.378	39.077	3.714	1.00	35.77
ATOM	3318	OH2	TIP C	198	24.488	11.993	21.654	1.00	38.05
ATOM	3319	OH2	TIP C	199	47.986	31.378	4.946	1.00	48.02
ATOM	3320	OH2	TIP C	200	15.373	46.520	15.659	1.00	45.30
ATOM	3321	OH2	TIP C	201	29.464	40.417	40.154	1.00	40.62
ATOM	3322	OH2	TIP C	202	56.018	18.652	7.189	1.00	43.28
ATOM	3323	OH2	TIP C	203	36.508	17.526	41.765	1.00	61.21
ATOM	3324	OH2	TIP C	204	36.132	36.523	-0.637	1.00	43.56
ATOM	3325	OH2	TIP C	205	9.832	29.974	46.230	1.00	47.33
ATOM	3326	OH2	TIP C	206	12.086	37.731	18.949	1.00	44.12
ATOM	3327	OH2	TIP C	207	4.729	26.744	22.711	1.00	40.03
ATOM	3328	OH2	TIP C	208	9.555	36.540	23.357	1.00	46.94
ATOM	3329	OH2	TIP C	209	23.046	47.732	4.343	1.00	48.13
ATOM	3330	OH2	TIP C	210	39.932	44.592	5.460	1.00	64.51
ATOM	3331	OH2	TIP C	211	17.996	41.071	6.267	1.00	48.35
ATOM	3332	OH2	TIP C	212	17.866	46.493	17.139	1.00	39.09
ATOM	3333	OH2	TIP C	213	55.520	11.908	17.658	1.00	43.06
ATOM	3334	OH2	TIP C	214	3.059	35.093	42.826	1.00	38.97
ATOM	3335	OH2	TIP C	215	31.593	14.910	43.677	1.00	44.01
ATOM	3336	OH2	TIP C	216	33.045	23.673	44.607	1.00	45.50
ATOM	3337	OH2	TIP C	217	42.870	35.555	7.510	1.00	29.79
ATOM	3338	OH2	TIP C	218	4.112	25.648	42.564	1.00	56.65
ATOM	3339	OH2	TIP C	219	48.260	8.547	20.446	1.00	47.85
ATOM	3340	OH2	TIP C	220	-0.925	31.171	41.173	1.00	36.99
ATOM	3341	OH2	TIP C	221	41.791	22.878	0.132	1.00	56.14
ATOM	3342	OH2	TIP C	222	7.088	25.685	41.540	1.00	47.43
ATOM	3343	OH2	TIP C	223	24.815	4.785	13.582	1.00	47.96
ATOM	3344	OH2	TIP C	224	40.690	4.520	15.174	1.00	48.76

FIG. 1 BBB

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ATOM	3345	OH2	TIP	C	225	10.029	32.425	18.562	1.00	36.30
ATOM	3346	OH2	TIP	C	226	22.346	37.737	48.941	1.00	34.15
ATOM	3347	OH2	TIP	C	227	16.274	17.012	19.693	1.00	27.63
ATOM	3348	OH2	TIP	C	228	35.332	13.692	20.375	1.00	37.59
ATOM	3349	OH2	TIP	C	229	41.228	36.673	22.908	1.00	51.58
ATOM	3350	OH2	TIP	C	230	17.416	42.030	50.226	1.00	47.63
ATOM	3351	OH2	TIP	C	231	18.428	39.213	52.835	1.00	40.43
ATOM	3352	OH2	TIP	C	232	42.243	43.386	25.548	1.00	48.60
ATOM	3353	OH2	TIP	C	233	14.081	18.701	0.364	1.00	32.87
ATOM	3354	OH2	TIP	C	234	41.421	41.332	28.531	1.00	54.67
ATOM	3355	OH2	TIP	C	235	42.772	36.396	11.892	1.00	41.24
ATOM	3356	OH2	TIP	C	236	13.068	13.733	28.653	1.00	42.66
ATOM	3357	OH2	TIP	C	237	10.850	26.738	7.811	1.00	40.46
ATOM	3358	OH2	TIP	C	238	16.253	20.926	45.776	1.00	44.60
ATOM	3359	OH2	TIP	C	239	32.681	31.139	43.220	1.00	42.20
ATOM	3360	OH2	TIP	C	240	56.267	22.254	9.280	1.00	52.44
ATOM	3361	OH2	TIP	C	241	12.553	25.304	9.942	1.00	38.77
ATOM	3362	OH2	TIP	C	242	50.727	9.516	16.775	1.00	33.38
ATOM	3363	OH2	TIP	C	243	31.871	41.347	0.512	1.00	47.78
ATOM	3364	OH2	TIP	C	244	10.008	45.092	37.807	1.00	39.52
ATOM	3365	OH2	TIP	C	245	14.551	39.030	6.708	1.00	44.26
ATOM	3366	OH2	TIP	C	246	26.955	18.903	-5.135	1.00	42.54
ATOM	3367	OH2	TIP	C	247	39.916	22.478	18.854	1.00	33.22
ATOM	3368	OH2	TIP	C	248	40.431	40.824	22.426	1.00	35.58
ATOM	3369	OH2	TIP	C	249	52.081	23.408	10.759	1.00	42.53
ATOM	3370	OH2	TIP	C	250	12.078	16.710	24.149	1.00	32.37
ATOM	3371	OH2	TIP	C	251	54.111	15.908	8.256	1.00	44.58
ATOM	3372	OH2	TIP	C	252	33.950	12.827	-1.753	1.00	27.02
ATOM	3373	OH2	TIP	C	253	-0.775	26.703	40.353	1.00	43.64
ATOM	3374	OH2	TIP	C	254	1.937	33.711	40.561	1.00	42.67
ATOM	3375	OH2	TIP	C	255	8.008	24.066	18.824	1.00	51.45
ATOM	3376	OH2	TIP	C	256	11.765	27.465	3.635	1.00	47.34
ATOM	3377	OH2	TIP	C	257	27.863	43.878	9.233	1.00	32.44
ATOM	3378	OH2	TIP	C	258	18.655	30.114	4.303	1.00	33.13
ATOM	3379	OH2	TIP	C	259	21.592	19.085	-3.960	1.00	39.86
ATOM	3380	OH2	TIP	C	260	41.876	24.067	25.906	1.00	26.34
ATOM	3381	OH2	TIP	C	261	46.651	10.240	2.171	1.00	44.38
ATOM	3382	OH2	TIP	C	262	32.536	15.827	32.477	1.00	43.28
ATOM	3383	OH2	TIP	C	263	12.479	39.205	50.359	1.00	47.33
ATOM	3384	OH2	TIP	C	264	0.850	27.980	38.316	1.00	43.45
ATOM	3385	OH2	TIP	C	265	49.605	7.356	18.061	1.00	66.01
ATOM	3386	OH2	TIP	C	266	30.177	40.365	-3.235	1.00	44.45
ATOM	3387	OH2	TIP	C	267	39.818	12.364	0.512	1.00	48.84
ATOM	3388	OH2	TIP	C	268	38.149	44.716	27.884	1.00	51.18
ATOM	3389	OH2	TIP	C	269	37.156	37.062	30.528	1.00	35.17
ATOM	3390	OH2	TIP	C	270	51.808	7.097	12.435	1.00	51.69
ATOM	3391	OH2	TIP	C	271	54.351	12.626	12.471	1.00	47.45
ATOM	3392	OH2	TIP	C	272	50.835	31.155	13.092	1.00	55.05
ATOM	3393	OH2	TIP	C	273	12.159	35.313	52.133	1.00	52.38
ATOM	3394	OH2	TIP	C	274	21.002	44.489	13.037	1.00	39.70
ATOM	3395	OH2	TIP	C	275	37.936	23.627	34.221	1.00	48.56
ATOM	3396	OH2	TIP	C	276	45.844	30.935	31.365	1.00	43.24
ATOM	3397	OH2	TIP	C	277	38.831	48.015	15.554	1.00	49.83
ATOM	3398	OH2	TIP	C	278	5.630	28.150	44.576	1.00	48.10
ATOM	3399	OH2	TIP	C	279	8.600	24.000	45.727	1.00	49.27
ATOM	3400	OH2	TIP	C	280	54.276	20.854	7.807	1.00	36.02
ATOM	3401	OH2	TIP	C	281	3.544	34.696	46.365	1.00	43.63
ATOM	3402	OH2	TIP	C	282	24.214	46.264	46.163	1.00	48.04
ATOM	3403	OH2	TIP	C	283	7.099	32.072	19.549	1.00	54.97
ATOM	3404	OH2	TIP	C	284	36.469	22.374	41.355	1.00	52.17
ATOM	3405	OH2	TIP	C	285	34.660	13.757	23.756	1.00	45.46
ATOM	3406	OH2	TIP	C	286	28.516	42.981	5.402	1.00	53.58

FIG. 1CCC

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ATOM	3407	OH2	TIP C	287	35.579	4.929	12.012	1.00	52.07
ATOM	3408	OH2	TIP C	288	22.974	49.682	24.299	1.00	53.67
ATOM	3409	OH2	TIP C	289	3.725	31.464	46.354	1.00	46.43
ATOM	3410	OH2	TIP C	290	27.340	39.594	-2.191	1.00	56.89
ATOM	3411	OH2	TIP C	291	33.413	34.856	32.335	1.00	31.78
ATOM	3412	OH2	TIP C	292	43.340	7.715	8.063	1.00	43.53
ATOM	3413	OH2	TIP C	293	28.243	21.392	-4.937	1.00	38.33
ATOM	3414	OH2	TIP C	294	49.389	26.590	35.796	1.00	45.66
ATOM	3415	OH2	TIP C	295	28.948	15.824	33.796	1.00	52.48
ATOM	3416	OH2	TIP C	296	27.347	13.383	37.207	1.00	48.27
ATOM	3417	OH2	TIP C	297	38.485	26.090	36.901	1.00	48.92
ATOM	3418	OH2	TIP C	298	12.120	20.265	11.506	1.00	50.10
ATOM	3419	OH2	TIP C	299	36.480	36.306	38.613	1.00	50.38
ATOM	3420	OH2	TIP C	300	31.471	16.463	35.507	1.00	38.37
ATOM	3421	OH2	TIP C	301	42.889	5.274	2.358	1.00	33.49
ATOM	3422	OH2	TIP C	302	23.548	44.173	32.246	1.00	39.09
ATOM	3423	OH2	TIP C	303	13.465	43.978	13.054	1.00	52.67
ATOM	3424	OH2	TIP C	304	25.133	43.053	4.111	1.00	52.03
ATOM	3425	OH2	TIP C	305	33.587	24.652	39.392	1.00	49.48
ATOM	3426	OH2	TIP C	306	39.063	28.353	1.979	1.00	47.89
ATOM	3427	OH2	TIP C	307	49.357	35.834	12.150	1.00	49.22
ATOM	3428	OH2	TIP C	308	27.159	46.386	33.347	1.00	49.50
ATOM	3429	OH2	TIP C	309	9.510	21.769	39.704	1.00	47.95
ATOM	3430	OH2	TIP C	310	34.885	32.959	39.205	1.00	51.26
ATOM	3431	OH2	TIP C	311	30.980	6.002	9.747	1.00	56.02
ATOM	3432	OH2	TIP C	312	43.802	34.511	14.853	1.00	41.89
ATOM	3433	OH2	TIP C	313	36.834	4.382	5.254	1.00	39.04
ATOM	3434	OH2	TIP C	314	12.453	30.429	47.461	1.00	47.60
ATOM	3435	OH2	TIP C	315	39.685	40.144	30.944	1.00	54.68
ATOM	3436	OH2	TIP C	316	45.982	20.840	31.078	1.00	47.99
ATOM	3437	OH2	TIP C	317	32.815	36.023	42.050	1.00	45.07
ATOM	3438	OH2	TIP C	318	17.877	37.802	-3.699	1.00	56.30
ATOM	3439	OH2	TIP C	319	53.681	9.633	16.525	1.00	55.34
ATOM	3440	OH2	TIP C	320	21.577	43.070	52.229	1.00	49.54
ATOM	3441	OH2	TIP C	321	6.139	45.122	36.565	1.00	44.40
ATOM	3442	OH2	TIP C	322	34.695	13.561	26.782	1.00	45.99
ATOM	3443	OH2	TIP C	323	17.990	33.946	-9.976	1.00	56.88
ATOM	3444	OH2	TIP C	324	25.587	50.416	28.268	1.00	52.75
ATOM	3445	OH2	TIP C	325	27.744	42.608	42.266	1.00	44.66
ATOM	3446	OH2	TIP C	326	48.357	32.815	33.851	1.00	57.98
ATOM	3447	OH2	TIP C	327	61.047	18.004	17.692	1.00	51.30
ATOM	3448	OH2	TIP C	328	17.327	11.069	11.972	1.00	48.28
ATOM	3449	OH2	TIP C	329	59.624	17.562	20.598	1.00	44.37
ATOM	3450	OH2	TIP C	330	40.644	39.227	19.932	1.00	37.57
ATOM	3451	OH2	TIP C	331	12.920	31.214	52.942	1.00	51.07
ATOM	3452	OH2	TIP C	332	37.639	0.847	19.561	1.00	49.44
ATOM	3453	OH2	TIP C	333	34.243	38.790	-3.251	1.00	54.21
ATOM	3454	OH2	TIP C	334	24.216	47.874	6.983	1.00	50.90
ATOM	3455	OH2	TIP C	335	15.324	34.797	6.670	1.00	45.25
ATOM	3456	OH2	TIP C	336	18.474	15.525	21.402	1.00	34.12
ATOM	3457	OH2	TIP C	337	40.048	8.873	26.818	1.00	49.89
ATOM	3458	OH2	TIP C	338	32.472	13.331	20.523	1.00	29.86
ATOM	3459	OH2	TIP C	339	57.778	14.167	30.422	1.00	49.76
ATOM	3460	OH2	TIP C	340	46.651	35.476	13.375	1.00	56.48
ATOM	3461	OH2	TIP C	341	15.427	13.237	3.552	1.00	57.25
ATOM	3462	OH2	TIP C	342	40.349	38.972	3.722	1.00	65.27
ATOM	3463	OH2	TIP C	343	8.685	28.945	15.205	1.00	59.60
ATOM	3464	OH2	TIP C	344	11.958	41.585	22.587	1.00	37.18
ATOM	3465	OH2	TIP C	345	9.054	20.498	28.914	1.00	42.95
ATOM	3466	OH2	TIP C	346	20.086	20.088	46.913	1.00	42.03
ATOM	3467	OH2	TIP C	347	40.370	35.093	2.009	1.00	49.35
ATOM	3468	OH2	TIP C	348	41.948	4.327	12.147	1.00	50.59

FIG. 1DDD

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ATOM	3469	OH2	TIP C	349	23.518	45.701	40.287	1.00	39.79
ATOM	3470	OH2	TIP C	350	19.169	37.474	4.786	1.00	44.67
ATOM	3471	OH2	TIP C	351	32.946	39.184	41.062	1.00	57.56
ATOM	3472	OH2	TIP C	352	37.578	47.817	18.421	1.00	51.80
ATOM	3473	OH2	TIP C	353	15.391	43.820	7.645	1.00	58.15
ATOM	3474	OH2	TIP C	354	38.205	17.257	33.401	1.00	55.84
ATOM	3475	OH2	TIP C	355	43.224	1.565	14.606	1.00	41.12
ATOM	3476	OH2	TIP C	356	18.704	51.623	28.487	1.00	61.11
ATOM	3477	OH2	TIP C	357	46.033	5.813	0.173	1.00	43.43
ATOM	3478	OH2	TIP C	358	51.950	27.722	14.408	1.00	45.00
ATOM	3479	OH2	TIP C	359	46.825	2.427	15.714	1.00	52.68
ATOM	3480	OH2	TIP C	360	17.624	50.111	20.315	1.00	39.65
ATOM	3481	O	HOH	C 361	27.534	15.877	26.687	1.00	20.00
ATOM	3482	O	HOH	C 362	28.946	16.344	30.514	1.00	20.00
END									

FIG. 1EEE